Universität Basel

Universität Basel

Masterstudium: Sustainable Development

The aim of the MSD study program:
Our students gain advanced knowledge about scientific aspects of Sustainable Development in consideration of the ecological responsibility, the societal solidarity and the economic performance. They are taught to become competent and interdisciplinary working decision-makers in science, politics, economics, and society. Our graduates are able to consider, manage and implement complex sustainability issues.

Academic degree:
Master of Science in Sustainable Development

Structure:
The MSD study program contains 120 credit points, which are acquired over four semesters in the case of a full time study. For a part time study, the duration will extend accordingly. The MSD offers three focus areas: in natural sciences, in social sciences, and in economics; each containing six determined modules.
For detailed information regarding modules etc. we recommend to have a closer look at the study regulations (in German); the guidelines, the medium-term syllabus and the optimal study progression plan (all available in English). These documents and a graphic representation of the three focus areas can be downloaded from our website: https://www.msd.unibas.ch/en/services/downloads/msd-2017/

Head of the MSD:
The study program is jointly run by the Faculty of Sciences, the Faculty of Humanities and Social Sciences and the Faculty of Economics.
From August 2020 to July 2022, the teaching committee (TC) is chaired by Prof. Dr. Paul Burger, head of the Sustainability Research Group, Department of Social Sciences, Faculty of Humanities and Social Sciences.

Head of the coordination office MSD is Camelia Chebbi, for contact details see below (section academic advice).

Further information:
The guidelines and the study regulations inform about admission criteria, the registration process and the curriculum.
The detailed course directory (dcd) informs regarding teaching program of the current semester. Further information are provided by the medium-term syllabus (mittelfristiger Lehrplan). For the preparation of the timetable all these documents have to be considered.
All documents are available as downloads: https://www.msd.unibas.ch/en/services/downloads/msd-2017/

Studienfachberatung:
Individual study counceling on request. For academic advice and information please contact Camelia Chebbi, MA/MAS ETHZ/MAS NPPM FHNW, head coordination office MSD:
coordination-msd@unibas.ch; +41/61/207 04 20.

For detailed information regarding availability of office and staff see: https://msd.unibas.ch/en/organization/coordination-office/

Modul: Komplementärer Basisbereich Naturwissenschaften

50260-01 Vorlesung: Ecology and Evolution 1 KP

Dozierende	**Jan Beck**
Zeit und Ort	Mi 16:15-17:45 - Online Präsenz - teaching 16.15-17.45h: on 03.03.21, 17.03.21, 31.03.21, 28.04.21, 05.05.21, 12.05.21, and final examination on 26.05.21.
Datum	28.04.2021
Intervall	unregelmässig
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Departement Umweltwissenschaften
Module	Modul: Komplementärer Basisbereich Naturwissenschaften (Masterstudium: Sustainable Development)
Lernziele	You will understand the scientific basis of ecological and evolutionary theory, which is a precondition to understand many applied issues in conservation, ecosystem management, agricultural sciences and other topics of human-environment relationships.
Inhalt	The course will provide you with sound background knowledge in ecology and evolutionary biology. While I will primarily treat basic science topics and principles in these fields, the topics were also chosen for their relevance for applied sciences such as conservation, agro-sciences and ecosystem management. We will treat the basics of evolutioanry theory (e.g., common descent, natural selection, reproductive isolation and speciation), the genetic basis of evolution (e.g., mutation and recombination, selfish genes), and examples of human impact on evolution. The ecology part introduces basic concepts such as population growth, interspecific interactions, and the patterns of primary productivity and their consequences (among others). We will also look in detail at the geographic ranges of species and resulting

	emergent phenomena, such as biodiversity. A global perspective on the human impact on biodiversity, and its feedback on human economy, will put this into applied perspective.
Literatur	Recommended textbooks: - Biogeography, 4th ed., by Mark V. Lomolino, Brett R. Riddle, and Robert J. Whittaker; Oxford University Press. - Ecology: From Individuals to Ecosystems, 4th ed., by Michael Begon, Colin R. Townsend, John L. Harper; Wiley-Blackwell - Evolution, 3rd ed. by Mark Ridley; Wiley-Blackwell. - The selfish gene by Richard Dawkins, Oxford University Press. - Collapse: how societies choose to fail or survive by Jared Diamond; Penguin Books. All books are available at Basel university library. Additional journal article links or PDFs will be made available during the course (via ADAM).
Leistungsüberprüfung	Leistungsnachweis
Skala	1-6 0,1
Wiederholungsprüfung	eine Wiederholung, bester Versuch zählt
An-/Abmeldung zur Prüfung	An-/Abmelden: Belegen resp. Stornieren der Belegung via MOnA
Hinweise zur Leistungsüberprüfung	Regular attendance. Required readings and active participation. Written examination online: 26.05.21: during ususal time slot of teaching.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Participation only possible for MSD students (incl. preparation semester).
Bemerkungen	MSD 2017 Mandatory for students with focus area in social sciences and in economics. Unless you have a background in natural sciences and have already attended a similar course; you would have to substitute it by agreement with Prof. Dr. Patraicia Holm (learning agreement). For students with focus area in natural sciences the lecture is optional (and can be attended if you have not attended a similar course already) credit points are to be transferred to the "Focal Areas in Sustainability Research" module (learning agreement). Schedule: 16.15-17.45h: on the following dates: 03.03.21, 17.03.21, 31.03.21, 28.04.21, 05.05.21, 12.05.21, and final examination on 26.05.21. This lecture is offered by MSD. Dr. J. Beck holds a teaching assignment. For more information on Jan Beck see: https://orcid.org/0000-0003-1170-4751

36792-01 Vorlesung: Terrestrial ecosystem ecology and sustainable land use — 2 KP

Dozierende	**Ansgar Kahmen**
Zeit und Ort	Do 14:15-16:00 - Online Präsenz - Until end of semester: The seminar takes place online on Zoom. The Zoom link can be found on the ADAM workspace.
Datum	04.03.2021
Intervall	wöchentlich
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Integrative Biologie
Module	Lehrveranstaltungen Masterstudium Pflanzenwissenschaften (Masterstudium: Pflanzenwissenschaften) Lehrveranstaltungen Masterstudium Ökologie (Masterstudium: Ökologie) Modul Biologie 5 (Bachelorstudium: Biologie (Studienbeginn vor 01.08.2013)) Modul: Biologie 5 (Bachelorstudium: Biologie) Modul: Komplementärer Basisbereich Naturwissenschaften (Masterstudium: Sustainable Development)
Lernziele	You learn about: - the concept of ecosystem goods and services and the multifunctionality of land use - key processes determining energy, carbon nitrogen and water cycling in ecosystems - the impacts of global environmental changes on biogeochemical cycles - the role of biodiversity for ecosystem functioning - strategies for the sustainable use of ecosystem goods and services

Inhalt	Terrestrial ecosystems deliver ecosystem goods (food, timber, fuel) and services (carbon sequestration, nutrient cycling, water purification) that we as people depend on. The delivery of these ecosystem goods and services is tightly coupled to biogeochemical cycles that determine the fluxes of carbon, water or nutrients in ecosystems. In «Terrestrial ecosystem ecology and sustainable land use» we will present the key mechanisms that drive biogeochemical cycles in terrestrial ecosystems from leaf to globe. We will explain the impact of global environmental change (climate change, nitrogen deposition, loss of biodiversity, land use changes) on biogeochemical cycles and ecosystem services and will discuss sustainable management strategies that can mitigate these impacts. In essence, this class will teach the ecological principles that underlie the sustainable use of natural and agricultural ecosystems.
Literatur	- Canadell JG, et al. (2007) Terrestrial ecosystems in a changing world. Springer Verlag. - Chapin FS, Matson PA, Mooney HA (2002) Principles of terrestrial ecosystem ecology. Springer Verlag. - Lambin EF, Geist HJ (2006) Land-use and land-cover change. Springer Verlag. - Newton PCD, et al. (2007) Agroecosystems in a changing climate. CRC. - Schlesinger W (1997) Biogeochemistry. Academic Press. - WRI - World Resources Institute (2000) World Resources 2000-2001: People and ecosystems, the fraying web of life. World Resources Institute. - Millenium Ecosystem Assessment - Ecosystems and Human Well-being (2005) Island Press. - Naeem S, et al. (2009) Biodiversity, Ecosystem Functioning, and Human Wellbeing. Oxford University Press. - Altieri, M. A. Agroecology: The Science of Sustainable Agriculture. Boulder, CO: Westview Press, 1995. - Gliessman, S. R. Agroecology: Ecological Processes in Sustainable Agriculture. Boca Raton, FL: CRC Press, 2000.
Weblink	https://adam.unibas.ch
Leistungsüberprüfung	Lehrveranst.-begleitend
Skala	1-6 0,5
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	An-/Abmelden: Belegen resp. Stornieren der Belegung via MOnA
Hinweise zur Leistungsüberprüfung	End-of-semester written exam, 45 minutes Time: 10.06.2021, 14:15h or 09.09.2021, 9:00h Place: by arrangement
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Bemerkungen	Until end of semester: The seminar takes place online on Zoom. The Zoom link can be found on the ADAM workspace.

40076-01 Vorlesung mit Übungen: Technical Basis of Generation, Distribution and Storage of Energy — 3 KP

Dozierende	**Wolfgang Hoffelner**
Zeit und Ort	Mi 14:15-15:45 Chemie, Organische, Grosser Hörsaal OC
Datum	03.03.2021
Intervall	wöchentlich
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Departement Umweltwissenschaften
Module	Modul: Komplementärer Basisbereich Naturwissenschaften (Masterstudium: Sustainable Development)
Lernziele	Students - know the technical/scientific background behind the various methods and plants for energy production; - know the technical/scientific background of future energy systems (production, distribution, storage, recovery); - are able to judge about advantages and limitations of future energy concepts; - are able to judge about future national and international energy concepts and scenarii.
Inhalt	The current discussions about the future of our planet are closely related to ptoduction and use of energy. The development development of future energy strategies require knowledge about the basis of the different energy systems. Current discussions concerning scenarii for production and use of energy as well as the development of future energy strategies require knowledge about the basis of the different energy systems. During the lecture the students will get a deeper understanding of technical, physical and chemical backgrounds behind various kinds of energy as well its production technologies. The variety of future machines, plants and options for communication require also knowledge about energy storage and

energy distribution. Recovery of energy, which is based on the conversion of energy, is a basic element in energy saving and needs understanding of physical-chemical processes. The lecture shall enable students to objective and critical discussions concerning the complex concepts of future energy matters. In addition to the local Swiss requirements also the global dimension of energy will be considered. Possible discussion points are:
- Basis of Energy Systems
- Traditional Energy Production
- Renewable Energies
- Energy Storage and Recovery
- Smart Grids
- Mobility, etc.

Literatur	Literature will be given throughout the semester.
Leistungsüberprüfung	Leistungsnachweis
Skala	1-6 0,1
Wiederholungsprüfung	eine Wiederholung, bester Versuch zählt
An-/Abmeldung zur Prüfung	An-/Abmelden: Belegen resp. Stornieren der Belegung via MOnA
Hinweise zur Leistungsüberprüfung	Regular attendance. Required readings and active participation incl. oral presentation. Written examination online: 09.06.21, during the usual teaching time slot. Repeat examination in June, details tba.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Only for students of the MSD (incl. preparation semester). Students of IJDSD acccording to agreement with Prof. P. Burger.
Bemerkungen	MSD 2017 Mandatory for students with focus area in social sciences and in economics. Unless you have a background in natural sciences and have already attended a similar course; you would have to substitute it by agreement with Prof. Dr. Patraicia Holm (learning agreement). For students with focus area in natural sciences the lecture is optional (and can be attended if you have not attended a similar course already) credit points are to be transferred to the "Focal Areas in Sustainability Research" module (learning agreement). This lecture is offered by MSD. Dr. Wolfgang Hoffelner holds a teaching assignment.

Modul: Komplementärer Basisbereich Gesellschaftswissenschaften

17403-01 Seminar: Governance, Sustainable Development and Democracy 3 KP

Dozierende	**Rony Emmenegger**
Zeit und Ort	Mi 10:15-11:45 - Online Präsenz -
Datum	03.03.2021
Intervall	wöchentlich
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Fachbereich Nachhaltigkeitsforschung
Module	Modul: Kernbereich Gesellschaftswissenschaften (Masterstudium: Sustainable Development) Modul: Komplementärer Basisbereich Gesellschaftswissenschaften (Masterstudium: Sustainable Development) Vertiefungsmodul Global Europe: Umwelt und Nachhaltigkeit (Masterstudium: European Global Studies) Modul: Fields: Governance and Politics (MSG - African Studies) Modul: Resources and Sustainability (MSG - Changing Societies: Migration – Conflicts – Resources)
Lernziele	The participants - are familiar with the concepts 'governance', 'sustainable development' and 'democracy', they understand the interrelations and tensions between them; - have acquired basic theoretical, methodological and empirical knowledge and skills necessary to produce critically reflected scientific analyses of governance for sustainable development within various policy fields and political contexts.
Inhalt	Against the backdrop of persistent problems of unsustainability, there is a lively debate both in politics and in science on how to govern societies towards more sustainable pathways. In conceptual terms this debate increasingly builds on the notion of 'governance' which highlights both theoretical limits to classical models of political steering and the empirical insight that governments are not the only relevant actors when it comes to the management

of societal issues. Instead, at least within the context of modern democracies, the contested, interdependent and dynamic nature of contemporary policymaking has given rise to less hierarchical but more collaborative and polycentric forms of governance. Accordingly, for theoretical and empirical reasons, the governance of modern societies is more and more understood as a shared responsibility of the state, the market and the civil society.

This 'new governance complexity' is assumed to entail potentials and threats for sustainable development and democracy throwing up some fundamental questions regarding the relationship between all three concepts: How can societies be governed towards sustainable development in a democratic way? What are the normative and functional requirements of sustainability governance in democratic societies? What are the empirical conditions as well as prospects and barriers of democratic forms of governance for sustainable development within various political contexts? And, what are the implications of environmental change for the ways governance and democracy can be organized at and across spatial and temporal scales?

The seminar addresses the relationship between governance, sustainable development and democracy in theoretical and empirical respects. First, it will lay a theoretical fundament by introducing the concepts of governance, sustainable development and democracy. Second, specific approaches of governance for sustainable development will be critically discussed particularly with regard to their democratic implications. Third, a number of case studies of sustainability governance in different fields will provide an opportunity to analyze the democratic problem-solving capacity of different governance arrangements in various contexts. Finally, further theoretical and practical perspectives of democratic governance for sustainable development are sketched out.

Literatur	Relevant literature tba during the seminar.
Leistungsüberprüfung	Lehrveranst.-begleitend
Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	An-/Abmelden: Belegen resp. Stornieren der Belegung via MOnA
Hinweise zur Leistungsüberprüfung	Regular attendance, required readings, oral presentation, essay.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Special course application required (for details see "course application" or "Anmeldung"). Limited number of participants: Students of the MSD with focus area in natural sciences and economics (incl. prep. semester) and those of the IJDSD have a first priority. MSD students with focus area in social sciences have a second priority, those of the listed programs (see list of modules) have a third priority. If you study something different you must do a master's degree within the 'Faculty of Humanities and Social Sciences' and may attend the seminar in case of vacancies (these applications have the priority level four). Additional entry requirements for participants who do not study the MSD (incl. preparation semester) or IJDSD: They must have passed succesfully one of the following lectures (= credit points already acquired) during a former semester: - 11513: Sustainability: A new Societal Paradigm? - 41829: Perspectives of Social Sciences on Sustainability.
Anmeldung zur Lehrveranstaltung	Mandatory application for ALL: Link for application open from 18.01.21/noon - 07.02.21/ midnight: https://adam.unibas.ch/goto_adam_fold_744950.html (Login on top row right hand side of ADAM website. The link is open as soon as the application form is online). In case of vacancies the mandatory online application link remains open until the end of the second week of teaching.
Bemerkungen	Please note entry requirements and mandatory course application procedure (additional to registration on MOnA). MSD 2017 Mandatory for students with focus area in natural sciences and in economics (unless you have passed a similar class in a former semester, then you would have to subtitute it by areement with Prof. Dr. Paul Burger and fix this in a learning agreement).

For students with focus area in social sciences this seminar is optional for the "Core Competences in Social Scienes" module. They may accredit the credit points for the published module or transfer them to the "Focal Areas in Sustainability Research" module (learning agreement).

The seminar is offered by MSD. Dr. Rony Emmenegger is a post doc staff member of the Sustainability Research Group at Unibas and holds a teaching assignment.

11513-01 Vorlesung mit Übungen: Sustainability: A new Societal Paradigm? 3 KP

Dozierende	**Paul Burger**
Zeit und Ort	Mi 08:15-09:45 - Online Präsenz -
Datum	03.03.2021
Intervall	wöchentlich
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Fachbereich Nachhaltigkeitsforschung
Module	Modul: Kernbereich Gesellschaftswissenschaften (Masterstudium: Sustainable Development) Modul: Komplementärer Basisbereich Gesellschaftswissenschaften (Masterstudium: Sustainable Development) Vertiefungsmodul Global Europe: Umwelt und Nachhaltigkeit (Masterstudium: European Global Studies) Modul: Resources and Sustainability (MSG - Changing Societies: Migration – Conflicts – Resources)
Lernziele	The students - understand 'sustainable development' as a new alternative role model within the global societal development discourse; - know important theoretical social sciences based approaches to analyze sustainability issues and to conceptualize the role model.
Inhalt	Sustainable Development has become more and more influential since the famous Brundtland-report in shaping political, economic or individual decisions. However, it has also become a buzzword with many different meanings serving many different interests. Moreover, there are quite controversial theoretical approaches for conceptualizing sustainable development across different disciplines. Against this backdrop, this lecture provides a social science oriented basis for - understanding sustainable development as a new societal role model for human development; - conceptualizing sustainable development based on justice.
Literatur	Literature tba during lecture.
Leistungsüberprüfung	Leistungsnachweis
Skala	1-6 0,1
Wiederholungsprüfung	eine Wiederholung, bester Versuch zählt
An-/Abmeldung zur Prüfung	An-/Abmelden: Belegen resp. Stornieren der Belegung via MOnA
Hinweise zur Leistungsüberprüfung	Regular attendance and active participation. Final assessment: online, written examination on 02.06.21: during usual teaching time slot. Repeat examination tba.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	For MSD students (incl. preparation semester), those of the IJDSD and the listed degree programs (see list of modules). Other students must do a master's degree within the Departement of Social Sciences/Faculty of Humanities and Social Sciences.
Bemerkungen	MSD 2017 Mandatory lecture for all. A different choice is only allowed for students, who have a) attended and accredited the same class for the former degree; b) attended and accredited a comparable class for the former degree. If a), or b) applies, you have to register for a different course according to prior agreement with Prof. Dr. P. Burger. This lecture is offered by MSD. Prof. Dr. Paul Burger is a member of the Teaching Committee MSD and head of the Sustainability Research Group, Dep. of Social Sciences, Faculty of Humanities and Social Sciences, University of Basel

Modul: Komplementärer Basisbereich Wirtschaftswissenschaften

Universität Basel

10160-01	Vorlesung: Environmental and Resource Economics	6 KP
Dozierende	**Frank Christian Krysiak**	
Zeit und Ort	Di 12:15-14:00 - Online Präsenz - Di 16:15-18:00 - Online Präsenz - The course will be taught online at the dates you can see below and then continue in-class as soon as it is possible.	
Datum	02.03.2021	
Intervall	wöchentlich	
Angebotsmuster	Jedes Frühjahrsem.	
Anbietende Organisationseinheit	Wirtschaftswissenschaftliche Fakultät / WWZ	
Module	Modul Economics (ECON) II (Bachelorstudium: Wirtschaftswissenschaften) Modul: Komplementärer Basisbereich Wirtschaftswissenschaften (Masterstudium: Sustainable Development) Vertiefungsmodul Global Europe: Umwelt und Nachhaltigkeit (Masterstudium: European Global Studies) Modul: Wirtschaft in Osteuropa (BSF - Osteuropäische Kulturen) Wahlbereich Bachelor Wirtschaftswissenschaften: Empfehlungen (BSF - Wirtschaftswissenschaften) Modul: Wirtschaft in Osteuropa (BSG - Osteuropa-Studien)	
Lernziele	After taking this course you will know how to analyse environmental policy using the tools of economics. You will know economic concepts for understanding the causes of environmental degradation and for setting the objectives of environmental policy. You will be able to apply microeconomic theory to analyze the mechanisms via which different policy instruments influence the environmental behavior of firms. At the example of exhaustible and renewable resources, you will have learned how to analyze cases where present actions have long-lasting environmental consequences.	
Inhalt	Economic and ethical foundations of environmental policy, external effects, policy instruments and their effects, measurement of external effects, economics of exhaustible resources, economics of renewable resources, economics of climate change.	
Literatur	R. Perman, Y. Ma, J. McGilvray, M. Common and D. Maddison (2011), "Natural Resource and Environmental Economics", 4th edition, Pearson Education.	
Weblink	https://wwz.unibas.ch/de/umweltoekonomie/lehre/	
Leistungsüberprüfung	Semesterendprüfung	
Skala	1-6 0,1	
Wiederholungsprüfung	keine Wiederholungsprüfung	
An-/Abmeldung zur Prüfung	Belegen via MOnA innerhalb der Belegfrist	
Hinweise zur Leistungsüberprüfung	written exam: 15.06.21; 10:15-11:45. Electronic exam. You will receive details of the electronic examinations by email approximately one week before the examination date.	
Belegen bei Nichtbestehen	beliebig wiederholbar	
Einsatz digitaler Medien	kein spezifischer Einsatz	
Unterrichtssprache	Englisch	
Teilnahmevoraussetzungen	Students should either have passed 10130 (Einführung in die VWL) or 48981 (Intensive Introduction to Intermediate Economics). If you have done 10130, it is recommended (but not required) to also do intermediate microeconomics (10134) before starting environmental and resource economics.	
Anmeldung zur Lehrveranstaltung	Registration: Please enrol in MOnA. EUCOR-Students and students of other Swiss Universities have to enrol at the students administration office (studseksupport1@unibas.ch) within the official enrolment period. Enrolment = Registration for the exam!	

Modul: Interdisziplinäre Forschung zu Nachhaltigkeit

50399-01	Kolloquium: Introduction to Ongoing MSD Master's Thesis	1 KP
Dozierende	**Paul Burger** Patricia Holm Frank Christian Krysiak	
Zeit und Ort	Fr 14:15-19:00 - Online Präsenz - on 12.03.21; 23.04.21 & 04.06.21: For details regarding schedule see 'comments'	
Datum	12.03.2021	
Intervall	unregelmässig	

Angebotsmuster	Jedes Semester
Anbietende Organisationseinheit	Departement Umweltwissenschaften
Module	Modul: Interdisziplinäre Forschung zu Nachhaltigkeit (Masterstudium: Sustainable Development)
Lernziele	Students - learn to perceive and understand other presentations; - get insights into other SD research topics; - learn to give constructive, specific feedback and to discuss the presented research topics; - learn to pose interesting questions on other student's presentations.
Inhalt	Within the study program of MSD 2017, students have to register 3 times in a 'master's thesis colloquium'. This colloquium 50339 on "ongoing master's thesis" is the first one to be attended (= colloquium A). The participants learn to understand the presented research designs, pose questions, and learn to give feedback.
Leistungsüberprüfung	Lehrveranst.-begleitend
Skala	Pass / Fail
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	An-/Abmelden: Belegen resp. Stornieren der Belegung via MOnA
Hinweise zur Leistungsüberprüfung	Regular attendance. Details will be submitted at the beginning of the semester to registered course participants.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	Online-Veranstaltung
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Only for students of the MSD. No other students admitted.
Anmeldung zur Lehrveranstaltung	Register on MOnA as soon as possible.
Bemerkungen	Schedule spring semester 2021: Meeting 1: 12.03.21: starts at 14.15h (duration depends on the number of presentations). Meeting 2: 23.04.21: starts at 14.15h (duration depends on the number of presentations). Meeting 3: 04.06.21: starts at 09.15h (duration depends on the number of presentations). Details regarding duration of each meeting are published with the program (usually sent out around 10 days before the meeting takes place). This course is offered by MSD: Prof. Dr. Patricia Holm, Paul Burger (lead) and Frank Krysiak are heading the MSD teaching committee.

50768-01 Kolloquium: Methods in Economics: Survey Data Collection and Analytics — 3 KP

Dozierende	**Aya Kachi**
Zeit und Ort	Mo 16:15-20:00 - Online Präsenz - The course will be taught online at the dates you can see below:
Datum	01.03.2021
Intervall	wöchentlich
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Wirtschaftswissenschaftliche Fakultät / WWZ
Module	Modul: Interdisziplinäre Forschung zu Nachhaltigkeit (Masterstudium: Sustainable Development)
Lernziele	1. learn survey and survey experiment methods from an applied, practical point of view, 2. learn how to use them in research.
Inhalt	This course is part of the full module "Colloquium: Survey Research Methodology (6KP)". In order to master fully the entire research process involving a survey and a survey experiment, it is strongly recommended that you sign up for the 6KP full module. In case you sign up for this 3KP module, the following will more or less what you will learn. The course is intended as an applied method colloquium taught at the master's level. The course welcomes motivated students who are willing to complete required readings beforehand, and discuss and participate actively in class with your peer. Creativity in thinking is always a little bit of a plus for survey- and survey-experiment oriented research. This partial module aims to prepare you for understanding good research involving a survey and a survey experiment. The course covers three major areas: (1) the nature of the survey response, including the typical psychology of attitude expressions and social desirability pressures; (2) general issues around quantitative survey research, including random and systematic

measurement errors, and the logic of causal analysis; and (3) analyzing and interpreting treatment effects (for survey experiments) using an existing (but not your own) survey experiment data. The topical area covered in this colloquium is mostly within the realm of climate- and energy-related policy issues; however, this should not prevent you from learning survey research methodology, even if your research interests were in other topical areas such as marketing and international trade. We will use R for quantitative analyses. Energy and Climate Policy—Citizens' Perspectives (VV-Nr: 43030) is not a strict requirement but highly recommended before taking this course. Basic knowledge of sampling and statistics would be useful. The final grade will be based on active participation, homework assignments and a final examination.

The largest difference from the full (6KP) version "Colloquium: Survey Research Methodology" is the following. In the full module, during the latter half of the colloquium, we, collectively as a class, will draft an original survey experiment together, and field it with a convenience sample (i.e. "real people"). In doing so, in the full module, we will learn and use Qualtrics as a survey software (which we will explore together in the course). Instead of the final examination, in the full module, each of us will write a short research note based on our original survey data, analyzing "real" results. Therefore, the full module would take a more thorough learning-by-doing style, including technical implementation of a survey, as well as thorough discussions on decisions regarding survey wording etc. Needless to say, one would also learn (by doing), what to illustrate in the final report.

Literatur	Required readings will be available on ADAM
Leistungsüberprüfung	Semesterendprüfung
Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Belegen via MOnA innerhalb der Belegfrist
Hinweise zur Leistungsüberprüfung	(1)Occasional individual or group assignments related to survey design. (2) Active participation in class. (3) Final examination. The final grade will be the sum of all these activities.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Energy and Climate Policy—Citizens' Perspectives (VV-Nr: 43030) is not a strict requirement but highly recommended before taking this course. Alternatively, some experience (courses) and knowledge about public opinion or survey-based market research can be helpful. Basic knowledge of sampling and statistics would be useful. Basic knowledge of R is also useful.
Anmeldung zur Lehrveranstaltung	Registration: Please enrol in MOnA. EUCOR-Students and students of other Swiss Universities have to enrol at the students administration office (studseksupport1@unibas.ch) within the official enrolment period. Enrolment = Registration for the exam!

52317-01 Kolloquium: Presentation of Concepts of MSD Master's Thesis — 1 KP

Dozierende	**Paul Burger** Patricia Holm Frank Christian Krysiak
Zeit und Ort	Fr 14:15-19:00 - Online Präsenz - on 12.03.21; 23.04.21 & 04.06.21: For details regarding schedule see "comments"
Datum	12.03.2021
Intervall	unregelmässig
Angebotsmuster	Jedes Semester
Anbietende Organisationseinheit	Departement Umweltwissenschaften
Module	Modul: Interdisziplinäre Forschung zu Nachhaltigkeit (Masterstudium: Sustainable Development)
Lernziele	Participants learn - to present research questions and a research concept to an interdisciplinary audience; - to place their research questions in an appropriate sustainability context; - to discuss research questions and concepts from other disciplines; - to provide constructive feedback to their fellow students.
Inhalt	Within the study program of MSD 2017, students have to register 3 times in a 'master's thesis colloquium'. This colloquium is the second one (= colloquium B). The participants present the research questions and the research design used in their master's theses. They prepare their presentations in a way that is accessible to an interdisciplinary audience, focus on the relation of their research questions to sustainable development and the fit between these questions and the research design.

Leistungsüberprüfung	Lehrveranst.-begleitend
Skala	Pass / Fail
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	An-/Abmelden: Belegen resp. Stornieren der Belegung via MOnA
Hinweise zur Leistungsüberprüfung	Regular attendance. Oral presentation of 15' minutes, followed by questions.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	Online-Veranstaltung
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Only for students of the MSD 2017 whose application of the "master's thesis" has been approved by the teaching committee. No other students admitted.
Anmeldung zur Lehrveranstaltung	Students have to register for a presentation on doodle: https://doodle.com/poll/gi3m2s83ytybyqgg?utm_source=poll&utm_medium=link For prerequisits see "Admission requirements". Presentation time slots according to announcements. Registration on MOnA remains mandatory.
Bemerkungen	Schedule spring semester 2021: Meeting 1: 12.03.21: starts at 14.15h (duration depends on the number of presentations). Meeting 2: 23.04.21: starts at 14.15h (duration depends on the number of presentations). Meeting 3: 04.06.21: starts at 09.15h (duration depends on the number of presentations). Details regarding duration of each meeting are published with the program (usually sent out around 10 days before the meeting takes place). This course is offered by MSD: Prof. Dr. Patricia Holm, Paul Burger (lead) and Frank Krysiak are heading the MSD teaching committee.

53982-01 Kolloquium: Presentation of Results of MSD Master's Thesis 1 KP

Dozierende	**Paul Burger** Patricia Holm Frank Christian Krysiak
Zeit und Ort	Fr 14:15-19:00 - Online Präsenz - on 12.03.21; 23.04.21 & 04.06.21: For details regarding schedule see "comments"
Datum	12.03.2021
Intervall	unregelmässig
Angebotsmuster	Jedes Semester
Anbietende Organisationseinheit	Departement Umweltwissenschaften
Module	Modul: Interdisziplinäre Forschung zu Nachhaltigkeit (Masterstudium: Sustainable Development)
Lernziele	The students learn - to present research questions and a research results to an interdisciplinary audience; - to place their research questions in an appropriate sustainability context; - to discuss research questions and results from other disciplines; - to provide constructive feedback to their fellow students.
Inhalt	Within the study program of MSD 2017, students have to register 3 times in a 'master's thesis colloquium'. This colloquium is the third and last one (= Colloquium C). The participants present the results of their master's theses. They prepare their presentations in a way that is accessible to an interdisciplinary audience, focus on the relation of their research questions to sustainable development and the fit between these questions and the results of their theses.
Leistungsüberprüfung	Lehrveranst.-begleitend
Skala	Pass / Fail
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	An-/Abmelden: Belegen resp. Stornieren der Belegung via MOnA
Hinweise zur Leistungsüberprüfung	Regular attendance. Oral presentation of 15' minutes, followed by questions.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	Online-Veranstaltung
Unterrichtssprache	Englisch

Teilnahmevoraussetzungen	Only for students of the MSD 2017 who are already able to present the results of the master's theses. The theses have to be completed at least up to 80% or may have been submitted already prior to the final presentation. No other students admitted.
Anmeldung zur Lehrveranstaltung	Students have to register for a presentation on doodle: https://doodle.com/poll/gi3m2s83ytybyqqg?utm_source=poll&utm_medium=link For prerequisits see "Admission requirements". Presentation time slots according to announcements. Registration on MOnA remains mandatory.
Bemerkungen	Schedule spring semester 2021: Meeting 1: 12.03.21: starts at 14.15h (duration depends on the number of presentations). Meeting 2: 23.04.21: starts at 14.15h (duration depends on the number of presentations). Meeting 3: 04.06.21: starts at 09.15h (duration depends on the number of presentations). Details regarding duration of each meeting are published with the program (usually sent out around 10 days before the meeting takes place). This course is offered by MSD: Prof. Dr. Patricia Holm, Paul Burger (lead) and Frank Krysiak are heading the MSD teaching committee.

60867-01 Kurs: Qualitative Research in Sustainability Science 3 KP

Dozierende	**Annika Sohre**
Zeit und Ort	Mo 10:15-11:45 - Online Präsenz - For detailed schedule see dates and rooms, and comments.
Datum	01.03.2021
Intervall	wöchentlich
Angebotsmuster	unregelmässig
Anbietende Organisationseinheit	Fachbereich Nachhaltigkeitsforschung
Module	Modul: Interdisziplinäre Forschung zu Nachhaltigkeit (Masterstudium: Sustainable Development)
Lernziele	By the end of the semester the participants will have acquired the skills to carry out interviews and content analysis in the field of sustainability research.
Inhalt	This hands-on course will teach techniques of qualitative methods in the social sciences, with a particular focus on interviews and content analysis. It will include background and practical aspects of data collection and data analysis. Specifically, in plenary sessions participants will gain a background on qualitative methods, on data collection (e.g., sampling strategies, techniques for developing guidelines ("Leitfaden"), according to different research designs, techniques for conducting interviews, dos and don'ts, challenges, recording and transcriptions, ethics, etc.) and on data analysis (content analysis, reference to MaxQDA and other analytical methods like discourse analysis/ ethnographic methods).
Literatur	Recommendation (to orient yourself, details will be provided during the semester): Fahy, F., & Rau, H. (Eds.) (2013). Methods of Sustainability Research in the Social Sciences. London: Sage Publications. Kruse, J., & Schmieder, C. (2014). Qualitative Interviewforschung. Beltz Juventa. Mayring, P. (2004). Qualitative content analysis. A companion to qualitative research, 1(2004), 159-176. Moses, J. W., & Knutsen, T. L. (2012). Ways of knowing: Competing methodologies in social and political research (2nd ed.). New York, NY: Palgrave Macmillan. Ritchie, J., Lewis, J., Nicholls, C. M., & Ormston, R. (Eds.). (2013). Qualitative research practice: A guide for social science students and researchers. Sage. Weis, L., & Fine, M. (2000). Speed bumps: A student-friendly guide to qualitative research. Teachers College Press.
Leistungsüberprüfung	Lehrveranst.-begleitend
Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	An-/Abmelden: Belegen resp. Stornieren der Belegung via MOnA

Hinweise zur Leistungsüberprüfung	Students will be divided into working groups to develop, collect data on and analyse interviews. Each group will present the results of their research and write a group report.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Only for MSD students (incl. preparation semester) who have not attended 50901 or 55161; students of the IJDSD are admitted according to agreement with Prof. P. Burger. No other students admitted.
Anmeldung zur Lehrveranstaltung	Please enrol as soon as possible, no additional course application required. Only for MSD students and those of the IJDSD.
Bemerkungen	Mandatory course for all MSD students (for the IRS module; transfer to other module is not possible!). If you have attended '50901: Qualitative Data Analysis: Analyzing Text and Talk', or '55161: Sozialforschung und Methodologie' in a former semester you are not accepted to this course anymore. Time slots for plenary sessions 10.15-11.45 a.m. on the following days: 01.03.21, 08.03.21, 15.03.21, 12.04.21, 19.04.21, 26.04.21, 03.05.21, 10.05.21, 31.05.21. AND: Double session on 17.05.21: from 08.15 to 11.45 a.m.!!! This course is offered by MSD. Dr. A. Sohre is post doc staff member of the Sustainability Research Group, Dep. of Social Sciences, Faculty of Humanities and Social Sciences.

50729-01 Projekt: Training for Sustainability Research — 6 KP

Dozierende	**Paul Burger** Marius Christen Patricia Holm Frank Christian Krysiak
Zeit und Ort	Do 08:15-09:45 - Online Präsenz - Dates of plenary meetings 08.15-9.45h on: 11.03.21; 08.04.21; 20.05.21; and 03.06.21: 08.15-11.45h Meetings in between with faculty members according to announcements.
Datum	11.03.2021
Intervall	unregelmässig
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Departement Umweltwissenschaften
Module	Modul: Interdisziplinäre Forschung zu Nachhaltigkeit (Masterstudium: Sustainable Development)
Lernziele	Participants learn to work in an interdisciplinary group on a topic that is linked to sustainability research. They acquire practical knowledge regarding the interfaces between disciplines in sustainability research and methods for combining perspectives from different disciplines. In addition, participants expand their skills in team and project management.
Inhalt	Participants will work in small, interdisciplinary groups on pre-selected topics of sustainability research. Typically, the topics will be linked to on-going research projects of the research groups supervising this course. The group work will mainly build on existing studies; the student groups will assess and link scientific literature from the different disciplines and combine these studies to a consistent interdisciplinary review on a given topic. The emphasis is thus on combining disciplinary approaches. To this end, participants will get both a joint supervision focusing on how to combine disciplinary approaches and a group-specific supervision focusing on the topic set for the group.
Leistungsüberprüfung	Lehrveranst.-begleitend
Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	An-/Abmelden: Belegen resp. Stornieren der Belegung via MOnA
Hinweise zur Leistungsüberprüfung	Groups hand in a joint essay; presentations of group work.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Only for MSD students (incl. preparation semester) and those of the IJDSD. No other students admitted.

Anmeldung zur Lehrveranstaltung	Please enrol as fast as possible,
Bemerkungen	Mandatory for all students of MSD 2017. plenary sessions on: meeting 1: 11.03.21; 08.15-09.45h; meeting 2: 08.04.21; 08.15-10.45h; meeting 3: 20.05.21; 08.15-10.45h; meeting 4: 03.06.21 (incl. final presentations): 08.15-11.45h. Meetings in between with faculty representatives according to announcements. This course is offered by MSD. Prof. P. Holm, Prof. Dr. P. Burger (lead) and Prof. Dr. F. Krysiak are head the MSD teaching committee. Dr. M. Christen holds a teaching assignment.

48955-01 Seminar: Tools and Methods of Natural Sciences Research — 3 KP

Dozierende	**Gabriel Erni Cassola**
Zeit und Ort	Mo 12:15-13:45 - Online Präsenz -
Datum	01.03.2021
Intervall	wöchentlich
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Departement Umweltwissenschaften
Module	Modul: Interdisziplinäre Forschung zu Nachhaltigkeit (Masterstudium: Sustainable Development)
Lernziele	The students - understand the difference between a scientific and a non-scientific approach to a question; - can formulate scientific hypotheses and can distinguish them from a question or idea; - and know about the difference between an observation and an experiment, induction and deduction, empiricism and rationalism, descriptive and experimental approaches. The students - understand the influence of observer, equipment, and experimental design on the outcome of an experiment; - know about sample sizes, research design, and error types; - understand the importance of positive / negative controls and standards. The students - know natural science methods that are important in the context of sustainability, such as molecular species identification, water quality parameters, behavioral assays, community assessments, assays for chemical contaminants, and others; - and know what kind of information these methods can provide and are aware of their limitations.
Inhalt	We will mix lectures, case studies, and self-organized work shadowing to gain knowledge about selected methods and approaches of the natural sciences. G. Erni Cassola will provide input on the scientific method in general and on specific methods, occasionally with the help of guest speakers. In addition, students will collect methodological expertise during work shadowing and literature work. The seminar will focus on methods which are relevant for sustainable development topics.
Literatur	Optional reading: Godfrey-Smith, Peter (2003): Theory and Reality: An Introduction to the Philosophy of Science. The University of Chicago Press: Chicago and London. Material handed out during the semester/seminar.
Leistungsüberprüfung	Lehrveranst.-begleitend
Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	An-/Abmelden: Belegen resp. Stornieren der Belegung via MOnA
Hinweise zur Leistungsüberprüfung	Regular attendance, active participation. Oral presentation and written report.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Only for MSD students (incl. preparation semester). No other students admitted.

	Bemerkungen	Mandatory seminar for all MSD students. This seminar is offered by MSD. Dr. Gabriel Erni Cassola is a staff member of MGU (Mensch-Gesellschaft-Umwelt), Dep. of Environmental Sciences, Faculty of Natural Sciences.

Modul: Kernbereich Naturwissenschaften

24172-01	Exkursion: Aquatic Ecosystems in Practice (Marine or Freshwater) – Functional Basics and Interaction with the Anthroposphere	3 KP

Dozierende	Karen Bussmann Philipp Hirsch **Patricia Holm**
Zeit und Ort	Mo 09:15-17:00 Kollegienhaus Di 18:15-19:15 - Online Präsenz - preliminary meeting: 16. March 21, 18.15-19.15h: online presence. preparation meeting: 14.06.21: 09.15 - aprox. 17.00h & field trip: 21.06.-25.06.21: details according to information of lecturers.
Datum	15.03.2021
Intervall	unregelmässig
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Departement Umweltwissenschaften
Module	Lehrveranstaltungen Masterstudium Biologie der Tiere (Masterstudium: Biologie der Tiere) Modul: Kernbereich Naturwissenschaften (Masterstudium: Sustainable Development) Wahlbereich Bachelor Biologie: Empfehlungen (Bachelorstudium: Biologie (Studienbeginn vor 01.08.2013)) Wahlbereich Bachelor Biologie: Empfehlungen (Bachelorstudium: Biologie)
Lernziele	Students - are able to distinguish key species of the food web; - have a knowledge about their habitat requirements and basic knowledge on their interactions with abiotic and biotic factors in their ecosystem; - know typical fields of conflict between man and nature; and are able to critically discuss possible solutions.
Inhalt	Practical studies of the food web (plankton, invertebrates, predators) and key aspects of a selected ecosystem. Theoretical background of selected topics at the intersection of aquatic biology of either freshwater or marine systems in interaction with anthropogenic factors. The excursion will take place preferentially at the Strait of Gibraltar (Tarifa, Spain) or, alternatively, depending on the corona-related travel restrictions, in Switzerland
Literatur	tba
Leistungsüberprüfung	Lehrveranst.-begleitend
Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	An-/Abmelden: Belegen resp. Stornieren der Belegung via MOnA
Hinweise zur Leistungsüberprüfung	Oral presentation and practical work during field trip.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Special course application required for ALL (for details see "course application" or "Anmeldung"). Limited number of participants (19), Students of the MSD and those of the mentioned fields of study have priority (see list of modules). Students of the bachelor's degree in Biology have been registered at least during 2 semesters in this field of study - incl. spring semester 21). If you study something different you must do at least a master's degree within the Departement of Enviromental Sciences (Faculty of Sciences) and may attend the course in case of vacancies. Students of the MSD who have chosen the focus area in social sciences or in economics must have completed the 'Complementary Knowledge in Natural Sciences' module (or at least earned 8 CP; incl. spring semester 2021).

Anmeldung zur Lehrveranstaltung	Mandatory application for ALL: Link for application open: 16.03.21/19.15h until 24.03.21/ midnight: https://adam.unibas.ch/goto_adam_fold_744950.html (Login on top row right hand side of ADAM website. The link is open as soon as the application form is online).
Bemerkungen	Note: Special course inscription and entry requirements! Those who have attended the field trip in a former semester cannot register again. Within the MSD, credit points may be transferred to the module "Focal Areas in Sustainability Research" (learning agreement) (all students). Students with focus area in natural sciences may also accredit the course within the published module. Schedule: - preliminary meeting: 16.03.21, 18.15-19.15h (online presence); - preperation meeting: 14.06.21: 09.15 - aprox. 17.00h and field trip: 21.06.-25.06.21. Details will be provided to participants in due time. This field trip is offered by the MSD. Prof. Dr. Patricia Holm is a member of the teaching committee MSD. Furthermore, she heads the research group Man-Society-Environment (Mensch-Gesellschaft-Umwelt MGU) and TQNE. Karen Bussmann holds a MSc in Biology (Major in Evolution and Ecology) and is doing her PhD within the research group MGU. Dr. P. Hirsch is a post doc staff member of Men-Society-Environment, Dep. Environmental Sciences, Faculty of Sciences.

60719-01 Kolloquium: MSD Life Science 1 KP

Dozierende	**Patricia Holm** Joschka Wiegleb
Zeit und Ort	Di 16:15-17:45 - Online Präsenz -
Datum	02.03.2021
Intervall	unregelmässig
Angebotsmuster	einmalig
Anbietende Organisationseinheit	Departement Umweltwissenschaften
Module	Modul: Kernbereich Naturwissenschaften (Masterstudium: Sustainable Development)
Lernziele	Die TeilnehmerInnen - üben und verbessern ihre Auftrittskompetenzen im Kontext einer Präsentation von wissenschaftlichen Daten; - üben und verbessern ihre Fähigkeiten wissenschaftliche Artikel kritisch zu diskutieren; - erwerben Wissen über aktuelle Themen, Ansätze und Methoden der wissenschaftlichen Nachhhaltigkeitsforschung (aus Sicht der Naturwissenschaften).
Inhalt	- Aktuelle Themen, wissenschaftliche Ansätze und neue Methoden in Ökologie und Nachhaltiger Entwicklung; - Präsentation und Diskussion eigener Forschungsprojekte (einschliesslich Masterarbeiten); - Präsentation und Diskussion von wichtigen, bahnbrechenden Publikationen.
Literatur	Literaturangaben werden während den einzelnen Kolloquiumsterminen gemacht.
Leistungsüberprüfung	Lehrveranst.-begleitend
Skala	Pass / Fail
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	An-/Abmelden: Belegen resp. Stornieren der Belegung via MOnA
Hinweise zur Leistungsüberprüfung	Oral presentation
Belegen bei Nichtbestehen	nicht wiederholbar
Einsatz digitaler Medien	Online-Veranstaltung
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Only MSD students with focus area in natural sciences; and PhD students, post docs and staff members of MGU.
Bemerkungen	Anrechnung MSD 2017 Pflichtveranstaltung für ALLE mit Studienvariante Phil.-Nat. (unabhängig davon, wie die Betreuung und Beurteilung der Masterarbeit geregelt sind). Zu welchem Zeitpunkt das Kolloquium belegt wird erfolgt in Rücksprache mit Prof. Dr. P. Holm. Weiter ist das Kolloquium für Doktorierende am MGU. Die Anrechnung der LV regeln sie in Rücksprache mit P. Holm.

Universität Basel

Dies ist ein Angebot vom MSD. Prof. Dr. P. Holm ist Leiterin von MGU und vom TQNE sowie Mitglied der Unterrichtskommission MSD.

23832-01 + Vorlesung: Oceanography: Regional Oceanography and Marine Ecosystems 2 KP

Dozierende	**Moritz Lehmann**
Zeit und Ort	Do 10:15-12:00 Bernoullistrasse 30/32, Hörsaal 103
Datum	04.03.2021
Intervall	wöchentlich
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Geowissenschaften
Module	Modul: Environmental Geosciences and Biogeochemistry (Masterstudium: Geowissenschaften) Modul: Kernbereich Naturwissenschaften (Masterstudium: Sustainable Development)
Lernziele	Ziel der Vorlesungsveranstaltung ist es, ein besseres Verständnis der physischen, chemischen, und biogeochemischen Verhältnisse typischer mariner Ökosysteme und ausgewählter Meeresgebiete zu erlangen.
Inhalt	Aufbauend auf der Vorlesung Umweltsystem Ozean I: Einführung In die Ozeanographie werden in einer Einführung die wichtigsten Grundlagen der modernen Ozeanographie und der grossskaligen Hydrographie der Ozeane wiederholt. Es wird konkret auf Verhältnisse in bestimmten Meersregionen (tropisch, subtropisch, polar, Auftriebsgebiete, Randmeere) eingegangen und Besonderheiten der verschiedenen marinen Ökosysteme (z.B. Schelfmeere/ Küste, Tiefsee, ästuarine Systeme) besprochen. Dabei werden speziell auch biogeochemische Prozesse behandelt, welche an den Grenzschichten zur Atmosphäre und zu den Sedimenten stattfinden.
Literatur	Es werden wöchentlich vorlesungsbegleitende Unterlagen (PPT-Präsentationen) und ggf. Artikel aus wissenschaftlichen Zeitschriften ausgegeben. Bücher: - The Open University. Oceanography Course Team. Mehrere Bände, Pergamon Press 1989 ff - Tomczak und Godfrey: Regional Oceanography: An Introduction, Pergamon Press, 1996
Weblink	https://duw.unibas.ch/de/bgc/
Leistungsüberprüfung	Lehrveranst.-begleitend
Skala	1-6 0,5
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	An-/Abmelden: Belegen resp. Stornieren der Belegung via MOnA
Hinweise zur Leistungsüberprüfung	Semesterendklausur und Referat zu ausgewählten Themen der Vorlesung.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	Online-Angebot fakultativ
Unterrichtssprache	Deutsch
Anmeldung zur Lehrveranstaltung	Belegen/Abmeldung nicht nötig
Bemerkungen	In der zweiten Semesterhälfte findet die Vorlesungsveranstaltung im Seminarstil statt. Je nach Entwicklung evt. wieder Durchführung vor Ort nach Ostern.

27336-01 Vorlesung: Pflanzenschutz und nachhaltiger Pflanzenbau 1 KP

Dozierende	Pascale Flury **Dominik Klauser**
Zeit und Ort	Di 16:15-18:00 - Online Präsenz - The lecture will be online on Zoom as long as teaching in presence is not possible, the Zoom link can be found on ADAM.
Datum	02.03.2021
Intervall	14-täglich
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Integrative Biologie
Module	Lehrveranstaltungen Masterstudium Pflanzenwissenschaften (Masterstudium: Pflanzenwissenschaften) Lehrveranstaltungen Masterstudium Ökologie (Masterstudium: Ökologie) Modul: Kernbereich Naturwissenschaften (Masterstudium: Sustainable Development) Wahlbereich Bachelor Biologie: Empfehlungen (Bachelorstudium: Biologie)
Inhalt	Die Vorlesung gibt einen allgemeinen Überblick über die wichtigsten Pflanzenschutzmethoden und –konzepte. Dies beinhaltet biologische, chemische and physikalische Ansätze für den Pflanzenschutz sowie Methoden zur Resistenzzüchtung bei Nutzpflanzen.

Universität Basel

	Themenschwerpunkte: Bedeutung des Pflanzenschutzes in der Landwirtschaft, wichtigste Pflanzenkrankheiten und -schädlinge, Methoden des Pflanzenschutzes, integrative Ansätze, Verhinderung der Resistenzbildung bei Schädlingen und Krankheitserregern. **** This lecture provides an overview on the most important methods and concepts in Crop Protection. This includes chemical, biological, physical and agronomic concepts for managing biotic and abiotic stresses. Furthermore, breeding-based approaches will also be considered.
Literatur	Scripts will be provided on the ADAM platform the day before the lecture.
Weblink	https://adam.unibas.ch/goto.php?target=crs_1018042&client_id=adam
Leistungsüberprüfung	Lehrveranst.-begleitend
Skala	1-6 0,5
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	An-/Abmelden: Belegen resp. Stornieren der Belegung via MOnA
Hinweise zur Leistungsüberprüfung	Written exam or oral exam with Zoom, instruction will be communicated by the lecturers.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Anmeldung zur Lehrveranstaltung	
Bemerkungen	The lecture will be given in German or English, as necessary. It is taking place alternating with the lecture no. 33588 "Konzepte und Methoden der grünen Biotechnologie" by Dr. Diana Santelia. Students can register and participate to both lectures.

50264-01 Vorlesung mit Übungen: Global Change Ecology — 3 KP

Dozierende	**Philipp Hirsch**
Zeit und Ort	Mo 14:15-15:45 - Online Präsenz -
Datum	01.03.2021
Intervall	wöchentlich
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Departement Umweltwissenschaften
Module	Modul: Kernbereich Naturwissenschaften (Masterstudium: Sustainable Development)
Lernziele	The students - understand the ecological effects of global change in different ecosystems and can explain patterns and the underlying mechanisms; - can critically analyze existing research approaches and available data in the context of global change ecology; - can identify the interface between the approach of ecological sciences and other sciences to describe and understand global change; - understand the challenges of finding solutions to the negative effects of global change.
Inhalt	We will treat the ecological relationships of global change following a hierarchical flow: going from basic food web effects to multiple trophic relationships, eventually including humans as recipients and agents of global change. Furthermore, we will frequently use aquatic ecosystems as case studies because they are disproportionally affected by global change and their ecosystem services are especially threatened and especially important to humans. Finally, we will consider global change beyond climate change and will treat land-use change, global transport and trade, change of human consumption patterns and pollution, global energy system change, species extinctions and invasions, and more. Specific topics include (but are not limited to!): 1) eco-evolutionary effects of land-use change and eutrophication, including a discussion of mitigation measures and socio-cultural effects; 2) ecological effects of earlier spring across multiple species in terrestrial food webs; 3) ecological effects and ecosystem service changes due to global species extinctions; 4) ecological and socio-economic effects of the global renewable energy development, including a discussion of future solutions; 5) human consumption patterns and ecological effects of microplastics pollution, including a discussion of the feasibility of existing solutions; 6) ecological and socio-economic effects and transdisciplinary management approaches of

biological invasions, including a discussion of currently available management options.

The lecture
- will be research-based. It will include specific case studies from the primary literature and will connect to current ongoing research;
- will also include application sections focusing on the discussion of existing solutions for mitigating the negative ecological effects of global change:
- will include specific local connections to the situation in Switzerland.

Practical course:
As a practical part each student will create a learning portfolio in parallel to the lecture. In this portfolio key questions raised in the lectures will be answered by students off class using own resources (e.g. literature research).
The portfolios will be collected and commented by peers and the lecturer. Based on this feedback the portfolios are developed as a complimentary resource to the lecture slides in preparation for the final written exam. The portfolios serve to practice the access to the course and exam content but will not be graded.

Literatur	Research articles as pdf-upload on ADAM will be supplied during the course.
Leistungsüberprüfung	Leistungsnachweis
Skala	1-6 0,1
Wiederholungsprüfung	eine Wiederholung, bester Versuch zählt
An-/Abmeldung zur Prüfung	An-/Abmelden: Belegen resp. Stornieren der Belegung via MOnA
Hinweise zur Leistungsüberprüfung	Regular attendance, readings, create a learning portfolio. Written examination online: 31.05.2021 (usual lecture time). Repetition exam: In June, details tba.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Mandatory course application, for details see "course application". Non-MSD students must be studying a master's degree within the Faculty of Siences/ Department of Environmental Sciences. MSD 2017 Students who have chosen the focus area in social sciences or in economics must have completed the 'Complementary Knowledge in Natural Sciences' module (at least 8 CP).
Anmeldung zur Lehrveranstaltung	Mandatory application for ALL: Link for application open from 18.01.21/noon - 07.02.21/ midnight: https://adam.unibas.ch/goto_adam_fold_744950.html (Login on top row right hand side of ADAM website. The link is open as soon as the application form is online). In case of vacancies the mandatory online application link remains open until the end of the second week of teaching.
Bemerkungen	Please note entry requirements and mandatory course application procedure (additional to registration on MOnA). MSD 2017 Mandatory lecture for MSD students with focus area in natural sciences, only for the published module. Students with focus area in social siences or in economics have to transfer the credit points to the FASR module (learning agreement). This lecture is offered by MSD. Dr. P. Hirsch is post doc staff member of Men-Society-Environment, Dep. Environmental Sciences, Faculty of Sciences.

60310-01 Vorlesung mit Übungen: Introduction to organic farming systems 3 KP

Dozierende	**Paul Mäder**
Zeit und Ort	Fr 12:15-14:00 - Online Präsenz -
Datum	05.03.2021
Intervall	wöchentlich
Angebotsmuster	Jedes Frühjahrsem.

Universität Basel

Anbietende Organisationseinheit	Integrative Biologie
Module	Lehrveranstaltungen Masterstudium Pflanzenwissenschaften (Masterstudium: Pflanzenwissenschaften) Lehrveranstaltungen Masterstudium Ökologie (Masterstudium: Ökologie) Modul: Geography and Climatology (Masterstudium: Geowissenschaften) Modul: Kernbereich Naturwissenschaften (Masterstudium: Sustainable Development) Doktorat Botanik: Empfehlungen (PF - Botanik)
Lernziele	The students are familiar with the principles and practices of organic farming. They can evaluate the strength and weeks of the farming systems and know the specific challenges in the areas of soil management, plant production and animal husbandry. The students are capable to judge critically the solutions of organic agriculture in view of a sustainable production.
Inhalt	Deepening knowledge in farming systems is essential because agriculture is one major driver for environmental pressures through land use change and the use of inputs in form of energy, fertilizers and pesticides. In the last decade there is a strong growth of certified organic farming at the National and International scale. The European Commission aims at increasing Organic farming in Europe to 25% until 2030, as it is considered as one promising option to solve the current problems of intensive agriculture encountering loss of soil fertility, decrease of biodiversity, the excessive use of natural resources and climate change. The lecture is organised as a lecture series ("Ringvorlesung"), where experts in their respective disciplines in soil, plant and animal sciences and socioeconomics will outline the principles and practises of organic agriculture, amended by case studies. In a group exercise, the students will develop their own thoughts on future developments and resilience aspects of organic farming in one topic presented in the lectures, and will display their outcomes as either poster or Power point. On a half- day excursion the theoretical material is illustrated on a long-term system comparison experiment and a practical farm in the valley of Leimen. Lecture 1, 2: Introduction (Paul Mäder, Bernadette Oehen) Lecture 3, 4: Plant production (Knut Schmidtke, Else Bünemann, Lucius Tamm, Claudia Daniel) Lecture 5 : Agro-Biodiversity (Sibylle Stöckli, Pierre Hohmann) Lecture 6: Animal husbandry (Florian Leiber) Lecture 7: Food (Bernadette Oehen, Maike Nesper) Lecture 8: Socioeconomics (Matthias Stolze, Laura Armengot) Lecture 9: Sustainability assessment (Christian Schader) Lecture 10: Resilience and future development of organic farming (Paul Mäder, Bernadette Oehen) Lecture 11: Excursion to the DOK trial in Therwil BL (Paul Mäder, Bernadette Oehen)
Weblink	https://adam.unibas.ch/ilias.php?ref_id=1106542&cmd=return&cmdClass=ilrepositorygui&cmdNode=w4&baseClass=ilRepositoryGUI&redirectSource=ilobjfilegui&cmdMode=
Leistungsüberprüfung	Lehrveranst.-begleitend
Skala	1-6 0,5
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	An-/Abmelden: Belegen resp. Stornieren der Belegung via MOnA
Hinweise zur Leistungsüberprüfung	1. Exercise as group work on future development of organic agriculture and resilience aspects, focussing on one subject; presentation of this group work in form of a poster (in case of lectures with physical presence), or as Power point (in case of live streaming via Zoom) 2. Written exam on Friday, June 4th, Bernoullianum, Grosser Hörsaal 148 Preconditions for the exam: presentation of group work
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Students of the MSD without background in natural sciences, and who have chosen the focus area in social sciences or in economics must have completed the 'Complementary Knowledge in Natural Sciences' module (or at least earned 8 CP). Credit points are to be transferred to the FASR module (with learning agreement).
Bemerkungen	This lecture series will take place online on Zoom. Please find the link on ADAM (you will find it in the PDF program). The excursion on 28 May and written exam on 4 June require physical attendance. Contact: Dr. Paul Mäder (Forschungsinstitut für biologischen Landbau, Research Institute of Organic Agriculture, FiBL) https://www.fibl.org/en/locations/switzerland.html www.fibl.org/en/about-us/team/maeder-paul-en.html Lecturers: Experts of the respective disciplines at FiBL, actively involved in national and

European research with a strong link to practical farmers, lecturing at ETH with a similar course.

23839-01 Vorlesung mit Übungen: Pedosphere and Hydrosphere - Biogeochemistry and Modelling of Element and Sediment Cycling 3 KP

Dozierende	**Christine Alewell** Pedro Batista Moritz Lehmann
Zeit und Ort	Fr 09:00-17:00 - Online Präsenz -
Datum	04.03.2021
Intervall	unregelmässig
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Geowissenschaften
Module	Modul: Environmental Geosciences and Biogeochemistry (Masterstudium: Geowissenschaften) Modul: Kernbereich Naturwissenschaften (Masterstudium: Sustainable Development)
Lernziele	Das Verständnis für komplexe Fragestellungen in aktuellen Forschungsprojekten soll gefördert werden. Gleichzeitig werden die in vorausgegangenen Lehrveranstaltungen gelegten Grundkenntnisse in Biogeochemie, Bodenkunde und Isotopengeochemie vertieft.
Inhalt	Die Dozierenden stellen Hintergründe, Fragestellung und Ergebnisse aus Forschungsprojekten und aktuellen Fragestellungen der Umweltgeowissenschaften und Biogeochemie vor. Dabei wird vor allem auf die Aufarbeitung der theoretischen Hintergründe wert gelegt. Daneben wird die Diskussion von Übertragbarkeit der Ergebnisse zwischen verschiedenen räumlichen Skalen oder auch die Bedeutung der Forschungsergebnisse in der Praxis ein Rolle spielen. Inhaltlich werden Beispiele aus der terrestrischen und aquatischen Biogeochemie, Bodenkunde und Isotopengeochemie behandelt.
Weblink	https://duw.unibas.ch/de/umweltgeowissenschaften/
Leistungsüberprüfung	Lehrveranst.-begleitend
Skala	1-6 0,5
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	An-/Abmelden: Belegen resp. Stornieren der Belegung via MOnA
Hinweise zur Leistungsüberprüfung	Mündliches oder schriftliches Referat. Eine Wiederholungsprüfung ist möglich.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	Online-Angebot fakultativ
Unterrichtssprache	Deutsch
Teilnahmevoraussetzungen	Die Lehrveranstaltung richtet sich an Studierende des Masters Geowissenschaften mit Vertiefung in Umweltgeowissenschaften und Biogeochemie. Andere Masterstudierende der Geowissenschaften sind willkommen.
Bemerkungen	Veranstaltung an 3 Freitage im Semester, jeweils von 9:00 bis 17:00 Uhr. Ganztägige Anwesenheit an allen Veranstaltungstagen ist Pflicht.

Modul: Kernbereich Gesellschaftswissenschaften

43667-01 Seminar: Changing Individual Energy Behaviour - Approaches and Strategies 3 KP

Dozierende	**Paul Burger**
Zeit und Ort	Di 14:15-15:45 - Online Präsenz -
Datum	02.03.2021
Intervall	wöchentlich
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Fachbereich Nachhaltigkeitsforschung
Module	Modul: Kernbereich Gesellschaftswissenschaften (Masterstudium: Sustainable Development) Vertiefungsmodul Global Europe: Umwelt und Nachhaltigkeit (Masterstudium: European Global Studies) Modul: Resources and Sustainability (MSG - Changing Societies: Migration – Conflicts – Resources)
Lernziele	The class will - learn on disciplinary approaches on changing individual energy behavior from economics, psychology, social sciences; - reveal the benefits and the necessity of an interdisciplinary approach to understand changes in individual energy behavior; - identify different governance strategies and levels of intervention to changing individual energy behavior.

Inhalt	Transforming today's energy systems in industrialized countries includes a substantial reduction of the total energy consumption at the individual level. Selected instruments have been found to be effective in changing people's behavior in single domains, however, households seems to be quite inert in their energy consumption. The so far weak success story on reducing overall energy consumption indicates that our understanding of the determining factors of individual energy consumption as well as of its change is far from being conclusive. Thereby, households or individuals are not treated as energy consumers properly speaking but as consumer of energy services. This widens the horizon to also include people's („socially constructed") wants. We will introduce different disciplinary approaches in the field of changing individual energy behavior to clarify the diverging perceptions of the opportunities to change the behavior. Regarding economics, energy is often seen as a commodity and consumers will adapt usage in response to price signals. In psychological conceptions, energy use can be affected by stimulus-response mechanisms or by promoting environmental values. Sociology is often not looking at individuals but at practices displaying social meanings in relation to „materials". Having revealed strengths and weaknesses of these approaches we will focus on an interdisciplinary frame integrating different perspectives on the change of individual energy behavior. Finally, we will further investigate and discuss the prospects and limitations of different governance/intervention strategies on multiple levels that are directed at changing individual energy behavior.
Literatur	tba in class
Leistungsüberprüfung	Lehrveranst.-begleitend
Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	An-/Abmelden: Belegen resp. Stornieren der Belegung via MOnA
Hinweise zur Leistungsüberprüfung	Regular attendance, required reading, oral presentation, essay.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	Online-Veranstaltung
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Special course application required for ALL (for details see 'course application' or 'Anmeldung'). Limited number of participants (25), Students of the MSD (incl. preparation semester), IJDSD and those of the listed programs (see list of modules) have priority. If you study something different you must do a master's degree within the 'Faculty of Humanities and Social Sciences'/Department of Social Sciences and may attend the seminar in case of vacancies. MSD 2017 MSD students who have chosen the focus area in natural sciences or in economics must have completed (or at least 8 CP) the "Complementary Knowledge in Social Sciences" module.
Anmeldung zur Lehrveranstaltung	Mandatory application for ALL: Link for application open from 18.01.21/noon - 07.02.21/ midnight: https://adam.unibas.ch/goto_adam_fold_744950.html (Login on top row right hand side of ADAM website. The link is open as soon as the application form is online). In case of vacancies the mandatory online application link remains open until the end of the second week of teaching.
Bemerkungen	Please note entry requirements and mandatory course application procedure (additional to registration on MOnA). MSD 2017 For students with focus area in social sciences the seminar is optional for the "Core Competences in Social Scienes" module. Transfer of credit points to the "Focal Areas in Sustainability Research" module (learning agreement) is possible for all students. This seminar is offered by MSD. Prof. Dr. Paul Burger is a member of the teaching committee MSD and head of the Sustainability Research Group, Dep. of Social Sciences, Faculty of Humanities and Social Sciences.

17403-01 Seminar: Governance, Sustainable Development and Democracy 3 KP

Dozierende	**Rony Emmenegger**
Zeit und Ort	Mi 10:15-11:45 - Online Präsenz -
Datum	03.03.2021
Intervall	wöchentlich

Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Fachbereich Nachhaltigkeitsforschung
Module	Modul: Kernbereich Gesellschaftswissenschaften (Masterstudium: Sustainable Development) Modul: Komplementärer Basisbereich Gesellschaftswissenschaften (Masterstudium: Sustainable Development) Vertiefungsmodul Global Europe: Umwelt und Nachhaltigkeit (Masterstudium: European Global Studies) Modul: Fields: Governance and Politics (MSG - African Studies) Modul: Resources and Sustainability (MSG - Changing Societies: Migration – Conflicts – Resources)
Lernziele	The participants - are familiar with the concepts 'governance', 'sustainable development' and 'democracy', they understand the interrelations and tensions between them; - have acquired basic theoretical, methodological and empirical knowledge and skills necessary to produce critically reflected scientific analyses of governance for sustainable development within various policy fields and political contexts.
Inhalt	Against the backdrop of persistent problems of unsustainability, there is a lively debate both in politics and in science on how to govern societies towards more sustainable pathways. In conceptual terms this debate increasingly builds on the notion of 'governance' which highlights both theoretical limits to classical models of political steering and the empirical insight that governments are not the only relevant actors when it comes to the management of societal issues. Instead, at least within the context of modern democracies, the contested, interdependent and dynamic nature of contemporary policymaking has given rise to less hierarchical but more collaborative and polycentric forms of governance. Accordingly, for theoretical and empirical reasons, the governance of modern societies is more and more understood as a shared responsibility of the state, the market and the civil society. This 'new governance complexity' is assumed to entail potentials and threats for sustainable development and democracy throwing up some fundamental questions regarding the relationship between all three concepts: How can societies be governed towards sustainable development in a democratic way? What are the normative and functional requirements of sustainability governance in democratic societies? What are the empirical conditions as well as prospects and barriers of democratic forms of governance for sustainable development within various political contexts? And, what are the implications of environmental change for the ways governance and democracy can be organized at and across spatial and temporal scales? The seminar addresses the relationship between governance, sustainable development and democracy in theoretical and empirical respects. First, it will lay a theoretical fundament by introducing the concepts of governance, sustainable development and democracy. Second, specific approaches of governance for sustainable development will be critically discussed particularly with regard to their democratic implications. Third, a number of case studies of sustainability governance in different fields will provide an opportunity to analyze the democratic problem-solving capacity of different governance arrangements in various contexts. Finally, further theoretical and practical perspectives of democratic governance for sustainable development are sketched out.
Literatur	Relevant literature tba during the seminar.
Leistungsüberprüfung	Lehrveranst.-begleitend
Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	An-/Abmelden: Belegen resp. Stornieren der Belegung via MOnA
Hinweise zur Leistungsüberprüfung	Regular attendance, required readings, oral presentation, essay.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Special course application required (for details see "course application" or "Anmeldung"). Limited number of participants: Students of the MSD with focus area in natural sciences and economics (incl. prep. semester) and those of the IJDSD have a first priority. MSD students with focus area in social sciences have a second priority, those of the listed programs (see list of modules) have a third priority. If you study something different you must do a master's degree within the 'Faculty of Humanities and Social Sciences' and may attend the seminar in case of vacancies (these applications have the priority level four).

	Additional entry requirements for participants who do not study the MSD (incl. preparation semester) or IJDSD: They must have passed succesfully one of the following lectures (= credit points already acquired) during a former semester: - 11513: Sustainability: A new Societal Paradigm? - 41829: Perspectives of Social Sciences on Sustainability.
Anmeldung zur Lehrveranstaltung	Mandatory application for ALL: Link for application open from 18.01.21/noon - 07.02.21/ midnight: https://adam.unibas.ch/goto_adam_fold_744950.html (Login on top row right hand side of ADAM website. The link is open as soon as the application form is online). In case of vacancies the mandatory online application link remains open until the end of the second week of teaching.
Bemerkungen	Please note entry requirements and mandatory course application procedure (additional to registration on MOnA). MSD 2017 Mandatory for students with focus area in natural sciences and in economics (unless you have passed a similar class in a former semester, then you would have to subtitute it by areement with Prof. Dr. Paul Burger and fix this in a learning agreement). For students with focus area in social sciences this seminar is optional for the "Core Competences in Social Scienes" module. They may accredit the credit points for the published module or transfer them to the "Focal Areas in Sustainability Research" module (learning agreement). The seminar is offered by MSD. Dr. Rony Emmenegger is a post doc staff member of the Sustainability Research Group at Unibas and holds a teaching assignment.

11513-01 Vorlesung mit Übungen: Sustainability: A new Societal Paradigm? 3 KP

Dozierende	**Paul Burger**
Zeit und Ort	Mi 08:15-09:45 - Online Präsenz -
Datum	03.03.2021
Intervall	wöchentlich
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Fachbereich Nachhaltigkeitsforschung
Module	Modul: Kernbereich Gesellschaftswissenschaften (Masterstudium: Sustainable Development) Modul: Komplementärer Basisbereich Gesellschaftswissenschaften (Masterstudium: Sustainable Development) Vertiefungsmodul Global Europe: Umwelt und Nachhaltigkeit (Masterstudium: European Global Studies) Modul: Resources and Sustainability (MSG - Changing Societies: Migration – Conflicts – Resources)
Lernziele	The students - understand 'sustainable development' as a new alternative role model within the global societal development discourse; - know important theoretical social sciences based approaches to analyze sustainability issues and to conceptualize the role model.
Inhalt	Sustainable Development has become more and more influential since the famous Brundtland-report in shaping political, economic or individual decisions. However, it has also become a buzzword with many different meanings serving many different interests. Moreover, there are quite controversial theoretical approaches for conceptualizing sustainable development across different disciplines. Against this backdrop, this lecture provides a social science oriented basis for - understanding sustainable development as a new societal role model for human development; - conceptualizing sustainable development based on justice.
Literatur	Literature tba during lecture.
Leistungsüberprüfung	Leistungsnachweis
Skala	1-6 0,1
Wiederholungsprüfung	eine Wiederholung, bester Versuch zählt
An-/Abmeldung zur Prüfung	An-/Abmelden: Belegen resp. Stornieren der Belegung via MOnA

Hinweise zur Leistungsüberprüfung	Regular attendance and active participation. Final assessment: online, written examination on 02.06.21: during usual teaching time slot. Repeat examination tba.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	For MSD students (incl. preparation semester), those of the IJDSD and the listed degree programs (see list of modules). Other students must do a master's degree within the Departement of Social Sciences/Faculty of Humanities and Social Sciences.
Bemerkungen	MSD 2017 Mandatory lecture for all. A different choice is only allowed for students, who have a) attended and accredited the same class for the former degree; b) attended and accredited a comparable class for the former degree. If a), or b) applies, you have to register for a different course according to prior agreement with Prof. Dr. P. Burger. This lecture is offered by MSD. Prof. Dr. Paul Burger is a member of the Teaching Committee MSD and head of the Sustainability Research Group, Dep. of Social Sciences, Faculty of Humanities and Social Sciences, University of Basel

Modul: Kernbereich Wirtschaftswissenschaften

43498-01 Kolloquium: Psychological Theory in Consumer Behavior 6 KP

Dozierende	**C. Miguel Brendl**
Zeit und Ort	Mi 14:15-18:00 - Online Präsenz - The course will be taught online at the dates you can see below:
Datum	03.03.2021
Intervall	14-täglich
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Wirtschaftswissenschaftliche Fakultät / WWZ
Module	Modul: Kernbereich Wirtschaftswissenschaften (Masterstudium: Sustainable Development) Vertiefungsmodul: Marketing and Strategic Management (Masterstudium: Wirtschaftswissenschaften)
Lernziele	• Obtaining an overview of fundamental psychological concepts in preference formation and choice. • Learning about the nature of theory construction and theory testing by means of experiments (heavily emphasized).
Inhalt	The course is appropriate for master's students in business, economics, or psychology, as well as for PhD students. You need to have either taken "Microeconomics and Psychology of Decision Making" or, if you are not a student of business/economics in Basel, an introductory psychology course. Although the course takes numerous applications from the academic field of consumer behavior, it focuses on general psychological theory. Specifically, it teaches you how to conduct research with a psychological/experimental orientation. For that reason it is a precondition for writing a master's thesis in behavioral marketing. But beyond that it is of particular interest if you want to explore what academic research is like. -For those without a prior degree in psychology the course offers a crash course in social and cognitive psychology as it relates to preferences (attitudes, feelings, evaluative judgments, choice). -For those with a prior degree in psychology the course offers learning how to derive behavioral predictions from theories, as opposed to just describing theories. This skill goes beyond merely describing a theory and is important for anyone who wants to actually use a psychological theory. During the seminar we discuss your homework solutions to a set of exercises. From this discussion we draw inferences about theory itself and about designing experiments. The entire course is in English.
Literatur	see syllabus
Weblink	https://adam.unibas.ch
Leistungsüberprüfung	Semesterendprüfung
Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung

An-/Abmeldung zur Prüfung	An- und Abmelden: Dozierende
Hinweise zur Leistungsüberprüfung	Format of the Class Sessions The class discussion focuses on exercises. Every session your homework consists of readings and exercises that ask you to make predictions for an experiment. Every session I randomly draw some students to present their exercise solutions, which we then discuss. Given this format, it is necessary that you have completed the assigned readings and exercises before each session, and that you are present for each session. A detailed write-up of an exercise will definitely be part of the grade. I have not yet decided whether the following will also contribute: your contributions to the class discussion; the presentations you give for both, the exercises and the readings.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	Online-Veranstaltung
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	A maximum of 15 students can enroll. We will emphasize the following for admissions: • Grades in the Kernfächer 31960 “Microeconomics and Psychology of Decision Making” and 12036 “Econometrics” or in equivalent courses if you come from another discipline.
Anmeldung zur Lehrveranstaltung	As the course is restricted to 15 students, please fill in the application form on the following link https://adam.unibas.ch/goto.php?target=crs_1089742_rcodecd2VXxuTFw&client_id=adam by February 17th, 2021, 8 pm. You will be notified by February 19th, 2021, if you have been admitted to the Kolloquium. Your enrollment in MOnA will then be registered automatically after the official enrollment deadline (March 29, 2021).
Bemerkungen	To take the course you have to be present in Session 1. This course is a pre-requisite if you want to write a master's thesis in behavioral marketing. See also details listed in the master seminar for behavioral marketing.

53713-01 Seminar: Environmental and Energy Economics — 6 KP

Dozierende	**Frank Christian Krysiak**
Zeit und Ort	Mo 14:15-16:00 - Online Präsenz - The seminar will be taught online with irregular on-site appointments that will be announced.
Datum	01.03.2021
Intervall	wöchentlich
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Wirtschaftswissenschaftliche Fakultät / WWZ
Module	Modul: Kernbereich Wirtschaftswissenschaften (Masterstudium: Sustainable Development) Modul: Seminararbeiten (Masterstudium: Wirtschaftswissenschaften) Vertiefungsmodul Global Europe: Umwelt und Nachhaltigkeit (Masterstudium: European Global Studies)
Lernziele	You will acquire in-depth knowledge on the topic chosen for your seminar thesis. In addition, you will learn how to extract the main results from scientific studies, how to apply them to a particular question, how to compare and discuss different studies, and how to build your own argument on this basis. If you choose to do so, you can also learn how to (slightly) extend existing studies on your own.
Inhalt	The course will cover current topics in environmental and energy economics, ranging from water pollution, climate change, promotion of renewables to new designs for electricity markets. Students will choose their individual topic from a supplied list and work individually on their seminar thesis. However, they will be required to connect their work to the general topical clusters of the seminar and to discuss the work of other students. During the first weeks, some training on presentation skills and on providing constructive feedback will be given.
Literatur	Students will receive one literature reference for their topic as a starting point for their own literature search.
Weblink	https://wwz.unibas.ch/de/umweltoekonomie/lehre/

Leistungsüberprüfung	Seminarleistung
Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	An- und Abmelden: Fakultät
Hinweise zur Leistungsüberprüfung	Students are required to write a seminar thesis based on existing scientific literature on their topic that includes an original contribution. This contribution can be either (a) a (small) extension of existing studies or (b) the application of existing results to a particular research question that involves connecting different studies and building your own argument. In addition, students are required to present their study, to comment on the study of at least one other student, and to contribute to the discussions during the seminar. Consistent attendance is obligatory.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	For students in the MA Business and Economics: Completed Bachelor in Business and Economics. The further prerequisites are that at least one of the following courses has been taken: 14255 Advanced Environmental Economics (Krysiak) 29002 Elektrizitätsmärkte: Zwischen Regulierung und Wettbewerb (Weigt) 17691 International Trade, Resources and the Environment (Taylor) MSD-Students without a bachelor degree in economics/business and without focus area in economics are supposed to have completed the “Complementary Knowledge in Economics” module (MSD 2017) or „Grundlagen- und Aufbaubereiche Wirtschaftswissenschaften“ (MSD 2010, at least ⅔ of the required credit points being completed). MSD-students with focus area in economics are required to have taken at least one of the courses mentioned above for students in the MA Business and Economics. Students of MA Business and Economics or MSD will be allocated with the same priority that is higher than for students of other programs. More about the general prerequisites and the allocation process can be found here: https://wwz.unibas.ch/de/studium/master-business-and-economics/masterseminare/
Anmeldung zur Lehrveranstaltung	The application for this seminar is done centrally and online until January 6, 2021 with the Studiendekanat. The link to the online application form and more information can be found here: https://wwz.unibas.ch/de/studium/master-business-and-economics/masterseminare/ The registration is binding. In case of non-participation after registration it will be noted as "nicht erschienen" in the transcript. If you drop the course after having been assigned a topic, you will receive the grade "1.0".

10625-01 Vorlesung: Advanced International Trade and Business — 6 KP

Dozierende	**Rolf Weder**
Zeit und Ort	Do 08:15-10:00 Wirtschaftswissenschaftliche Fakultät, Seminarraum S13 HG.35 Fr 08:15-10:00 Wirtschaftswissenschaftliche Fakultät, Auditorium The course will first be taught online and then if possible in class with an online live stream.
Datum	04.03.2021
Intervall	wöchentlich
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Wirtschaftswissenschaftliche Fakultät / WWZ
Module	Modul: Kernbereich Wirtschaftswissenschaften (Masterstudium: Sustainable Development) Spezialisierungsmodul: Areas of Specialization in International and/or Monetary Economics (Masterstudium: International and Monetary Economics) Vertiefungsmodul Global Europe: Handel und Unternehmen in der Globalisierung (Masterstudium: European Global Studies) Vertiefungsmodul Global Europe: Regional Integration and Global Flows (Masterstudium: European Global Studies) Vertiefungsmodul: International Trade, Growth and the Environment (Masterstudium: Wirtschaftswissenschaften)
Lernziele	Learning objectives: 1. to know the scientific discussion in international trade and international business regarding "Globalization" and "Outsourcing", 2. to understand the major contributions of the classical, neoclassical and new trade theories,

	and how these insights are used in the current literature, 3. to get an understanding, how trade economists simplify international relationships in order to analyze and answer the questions posed above, 4. to gain insight into the current research in international trade and business, 5. to get to know and be able to apply concepts which allow international companies and international organizations to develop strategies which are important in practice.
Inhalt	Content: This course deals with the effects that arise from the globalization of markets. We derive challenges for economic policy and strategic management of international firms. International trade theory offers an excellent framework in this respect. We deal with questions such as: "Who gains and who loses from selective integration of markets?", "Which impacts arise from technological changes abroad and at home?", "Why do multinational firms exist and what strategies do or should they follow in different circumstances?", "How can we explain outsourcing and offshoring, what are the effects, how can international firms react?". The course not only provides answers to these questions, but also introduces the concepts which current research in international trade is based on and constantly is using. We present and discuss the fundamental contributions of the traditional and new trade theory, also referring to current research in the field; research has always been very dynamic in this field - theoretically and empirically. This requires that textbooks, papers in scientific journals as well as working papers on the graduate level are used in the course. One of the challenges of this course and of economics in general is to constantly ask in which way the insight can be useful for policy making and strategic management in companies. One or two guestlectures will be integrated in the course.
Literatur	The relevant literature will be mentioned on the outline of the course. We will start with the foundation of international trade theory by David Ricardo in 1817 ("On Foreign Trade"), but also integrate most recent contributions from textbooks and articles published in international journals of economics and business. Papers will, whenever possible, be posted on ADAM in order that registered students in the course can easily download them from ADAM.
Weblink	https://adam.unibas.ch
Leistungsüberprüfung	Semesterendprüfung
Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Belegen via MOnA innerhalb der Belegfrist
Hinweise zur Leistungsüberprüfung	How to attain the learning objectives: Students should read the required reading in advance of each session. Some of this reading is very short. The required reading will be reduced to the minimum. However, I will sometimes go beyond this material and integrate further aspects into the lecture from the additional reading or the list of bibliography found at the end of this outline. I mention this list also as an aid for further reading and for writing a term paper for the Seminar in International Economics or the Master's thesis. Problems or questions will be solved by the students and/or discussed in class. There will be a written final exam. I will give students the opportunity to earn additional grades for active participation in form of handing in short essays or assignments as well as short presentations during the term. These will will have an announced weight in the final grade. Detailed information will be given at the beginning of the course as well as in the outline that should be available at the beginning of the term. written exam: 04.06.21; 08:15-09:45. Electronic exam. You will receive details of the electronic examinations by email approximately one week before the examination date.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Prerequisites: I expect that students have accomplished some courses in microeconomics on the BA level and that they have been confronted with a course or some material in International Trade or International Business on the BA level. The most important ingredient to the successful completion of the course is, however, the interest of students in topics of globalization and internationalization of firms and their willingness to read and regularly participate in class.
Anmeldung zur Lehrveranstaltung	Registration: Please enrol in MOnA. EUCOR-Students and students of other Swiss Universities have to enrol at the students administration office (studseksupport1@unibas.ch) within the official enrolment period.

Bemerkungen	In 2021, I intend to use more time for discussions on company strategies and economic policy in the light of the new technological developments ("Digitization") and the determinants of innovation. I also plan to give you the possibility to select extracts or invidual chapters of recently published papers and books to present them towards the end of the class. Details will made available at the beginning of the term.

56945-01 Vorlesung: Dynamic Optimization in Environmental Economics 3 KP

Dozierende	**Prudence Dato**
Zeit und Ort	Di 16:15-18:00 - Online Präsenz - The course will be taught online at the dates you can see below:
Datum	02.03.2021
Intervall	wöchentlich
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Wirtschaftswissenschaftliche Fakultät / WWZ
Module	Modul: Kernbereich Wirtschaftswissenschaften (Masterstudium: Sustainable Development) Vertiefungsmodul: International Trade, Growth and the Environment (Masterstudium: Wirtschaftswissenschaften)
Lernziele	The course will provide an overview over important topics in environmental economics connecting economic growth, the environment and natural resources use. It will cover dynamics optimization methods that are required to design optimal solutions for a sustainable economy. In addition, necessary tools to understand current research papers on optimal natural resource use, energy transition, environmental pollution, etc., will be studied.
Inhalt	This course addresses topics from current research in environmental and resources economics together with growth theory. The focus is on studying interactions between economic growth dynamics, environmental dynamics and natural resources dynamics to tackle energy transition issues. The course will cover two important aspects of connecting growth to natural resources and to the environment: 1) Growth and Natural Resources: the objective of this chapter is to explore the possibility of an indefinite positive growth path under natural resources availability constraints. It will start with a basic framework from Dasgupta and Heal (1974) to discuss Hotelling rules and optimal conditions. We will then focus on a specific case of a pure exhaustion problem, the so-called "cake-eating problem". The last section of this chapter will be devoted to study the sustainability problem with the Solow model, Hartwick rule, inter-generational justice. 2) Growth and the Environment: This chapter intends to basically study interactions between economic growth dynamics and environmental dynamics. It will commence with a basic framework that discusses optimal paths and efficiency. We will then study the "Environmental Kuznets curves (EKC) in a simple polluting growth model where outputs generates pollution. In addition, two complex model dynamics would be introduced by considering scale effect in terms of pollution abatement with respect to output. The last section will focus on a more complex model in which some natural resource are source of pollution instead of assuming that output is polluting. This will address issues related to the optimal energy transition.
Literatur	We provide the following selected references. An exhaustive bibliography will be provided during the lectures. Amigues, J. P., Le Kama, A. A., & Moreaux, M. (2015). Equilibrium transitions from non-renewable energy to renewable energy under capacity constraints. Journal of Economic Dynamics and Control, 55, 89-112. Boucekkine, R., Pommeret, A., & Prieur, F. (2012). Technological vs. ecological switch and the environmental Kuznets Curve. American Journal of Agricultural Economics, 95(2), 252-260. Dasgupta P, Heal G (1979) Economic theory and exhaustible resources. Cambridge University Press, Cambridge Dasgupta, P., & Heal, G. (1974). The Optimal Depletion of Exhaustible Resources. The Review of Economic Studies, 41, 3-28. Dato, P. (2017). Energy transition under irreversibility: a two-sector approach. Environmental and resource economics, 68(3), 797-820. Dixit, A., P. Hammond & M. Hoel (1980), 'On Hartwick's Rule for Regular Maximin Paths of Capital Accumulation and Resource Depletion', Review of Economic Studies 47, 551-556.

Hartwick, J. (1977). Intergenerational Equity and the Investing of Rents from Exhaustible Resources. The American Economic Review, 67(5), 972-974.

Tahvonen, O., & Withagen, C. (1996). Optimality of irreversible pollution accumulation. Journal of Economic Dynamics and Control, 20(9-10), 1775-1795.

Tsur, Y., & Zemel, A. (2003). Optimal transition to backstop substitutes for nonrenewable resources. Journal of Economic Dynamics and Control, 27(4), 551-572.

Weblink	https://adam.unibas.ch/goto_adam_crs_1059914.html
Leistungsüberprüfung	Semesterendprüfung
Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Belegen via MOnA innerhalb der Belegfrist
Hinweise zur Leistungsüberprüfung	The assessment of this course includes both presentations by students and a final written exam. There will be two rounds of presentations and students will randomly choose one paper from a selection of papers. Each student is expected to present one paper from either the first list or the second list. The presentation should focus on a short description of the problem and research questions, the methods, the policy recommendations and the link with the concepts studied in class. The students should also briefly state how they think the paper could be improved. It is also expected from the other students to participate to the discussion by asking questions. The grade obtained for the presentation is 30% of the final grade. The written exam at the end of the term will evaluate your ability to transfer a problem into a simple model and provide recommendations based on the results. More precisely, it will evaluate your capability to apply all the methods, concepts and scientific arguments discussed in class to a new environmental problem. The written exam represents 70% of the final grade. date of the written exam: tbd
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	Online-Veranstaltung
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	The course is based on the presentation of a general framework and a selection of papers. For each chapter, we will first present the general framework with related mathematical modelling details and economic intuition. Second, you will be asked to read one specific paper. Each lecture will begin with a short presentation of this paper by students and move on to a detailed discussion of the problem addressed in the paper, its methods, and results. Therefore, you will not be able to follow the discussion if you do not read the paper in advance. Due to time constraints, we will provide additional related references that you can read for a broader understanding of the scientific discussion.
Anmeldung zur Lehrveranstaltung	Registration: Please enrol in MOnA. EUCOR-Students and students of other Swiss Universities have to enrol at the students administration office (studseksupport1@unibas.ch) within the official enrolment period. Enrolment = Registration for the exam!

40106-01 Vorlesung: Game Theory and Theory of the Firm — 6 KP

Dozierende	Dragan Ilic **Catherine Roux**
Zeit und Ort	Mi 08:15-10:00 Vesalianum Seiteneingang, Grosser Hörsaal (EO.16) Fr 14:15-16:00 Vesalianum Seiteneingang, Grosser Hörsaal (EO.16) The "in class" sessions are broadcats with livestreams and recorded. After April 16, 2021 the course will be taught digitally without any fixed timeslots.
Datum	03.03.2021
Intervall	wöchentlich
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Wirtschaftswissenschaftliche Fakultät / WWZ
Module	Grundlagenmodul: Advanced Topics in Economics (Masterstudium: International and Monetary Economics) Kernmodul: BWL (Masterstudium: Wirtschaftswissenschaften) (Pflicht) Modul: Ausgewählte Themen aus Ökonomie und Rechtswissenschaft (Masterstudium: Actuarial Science) Modul: Kernbereich Wirtschaftswissenschaften (Masterstudium: Sustainable Development) Modul: Methoden der Wirtschaftswissenschaften (Masterstudium: European Global Studies) Modul: Vorbereitung Masterarbeit Wirtschaftswissenschaften (Masterstudium: Sustainable Development)

Lernziele

Game Theory:
As Gibbons (1992, xi) puts it: "Game Theory is the study of multiperson decision problems. Such problems arise frequently in economics. As is widely appreciated, for example, oligopolies present multiperson problems – each firm must consider what the others will do. But many other applications of game theory arise in fields of economics other than industrial organization. At the micro level, models of trading processes (such as bargaining and auction models) involve game theory. At the intermediate level of aggregation, labor and financial economics include game-theoretic models of the behavior of a firm in its input markets (rather than its output market, as in an oligopoly). There are also multiperson problems within a firm: many workers may vie for one promotion; several divisions may compete for the corporation's investment capital. Finally, at a high level of aggregation, international economics includes models in which countries compete (or collude) in choosing tariffs and other trade policies, and macroeconomics includes models in which monetary authority and wage or price setters interact strategically to determine the effects of monetary policy."
This course will introduce students to the main concepts and techniques of game-theoretic analysis. At its core lies the understanding of strategic interactions between deciding agents. The students will appreciate how to apply game-theoretic analysis to strategic settings.

Theory of the Firm:
Why do firms exist? Why are firms organized the way they are? Traditional economic models leave little room for firms or other organizations as they focus on market exchange between individuals.
This course will introduce students to microeconomic models that try to explain the existence and structure of firms as we observe them in the real world. Economics brings a rigorous approach that is grounded in theory. The course will provide a basic understanding of economic approaches to modeling and understanding aspects of firms, their structure, the behavior they create, and how they differ from market interaction.
About half of the course will be based on the standard textbook by Milgrom and Roberts, the other half will consist of influential articles on the economics of organizations, by authors such as Coase, Williamson, Hart, and Tirole.

Inhalt

Game Theory (first half of the semester):
The course is divided into lecture hours and exercise hours. Problem sets will be available before every lecture hour and will be partly solved together in class.
Block 1: Static Games of Complete Information:
- Introduction, normal form, best response, dominant strategies, iterated elimination, Nash equilibrium
- Mixed strategies
- Proof of existence, multiple equilibria, refinements

Block 2: Dynamic Games of Complete Information:
- Extensive form, backwards induction
- Subgame perfection, repeated games
- Infinitely repeated games, bilateral bargaining

Block 3: Static Games of Incomplete Information:
- Bayesian games, Bayesian Nash Equilibrium
- First-price auction, double auction

Block 4: Dynamic Games of Complete and Incomplete Information:
- Purification of mixed strategies, Perfect Bayesian Equilibrium
- Signaling games

Theory of the Firm (second half of the semester):
Markets and Prices as Coordination and Incentive Devices
- Transaction Costs
- Team Production
- Asymmetric Information
- Principal-Agent Theory
- Signaling
- Efficiency Wages

Literatur

Literature part Game Theory:
The teaching program follows Robert Gibbon's book "Game Theory for Applied Economists", also known as "A Primer in Game Theory," (Princeton University Press, 1992). Slides for each lecture are uploaded to ADAM in advance.

Literature part Theory of the Firm:
The readings will consist of both scholarly research articles and chapters from the textbook, Economics, Organization and Management, by Paul Milgrom and John Roberts (1992,

	Prentice Hall). Both kinds of readings will be made available online.
Weblink	https://adam.unibas.ch
Leistungsüberprüfung	Semesterendprüfung
Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Belegen via MOnA innerhalb der Belegfrist
Hinweise zur Leistungsüberprüfung	combined written exam: 10.06.21; 15:00-16:30. The exam will take place at Basel Exhibition Center (Messe Basel). In case COVID-19 protective measures prevent examination on site, the faculty reserves the right to conduct the examination electronically during the same time slot. You will receive details of the on-site examinations (Exhibition Center or WWZ) by email approximately one week before the examination date.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	Online-Angebot obligatorisch
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Completed Bachelor in Business and Economics
Anmeldung zur Lehrveranstaltung	Registration: Please enroll in MOnA. EUCOR-Students and students of other Swiss Universities have to enroll at the students administration office (studseksupport1@unibas.ch) within the official enrollment period. Enrollment = Registration for the exam!
Bemerkungen	For all MIME students: This lecture can be a substitute in the Module 1: Advanced Topics in Econonomics for the course 31960 Microeconomics and Psychology of Decision Making which is taught in fall term.

17691-01 Vorlesung: International Trade, Resources and the Environment - ABGESAGT - 3 KP

Dozierende	M. Scott Taylor
Zeit und Ort	abgesagt
Datum	01.03.2021
Intervall	Block
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Wirtschaftswissenschaftliche Fakultät / WWZ
Module	Modul: Kernbereich Wirtschaftswissenschaften (Masterstudium: Sustainable Development) Modul: Vorbereitung Masterarbeit Wirtschaftswissenschaften (Masterstudium: Sustainable Development) Spezialisierungsmodul: Areas of Specialization in International and/or Monetary Economics (Masterstudium: International and Monetary Economics) Vertiefungsmodul Global Europe: Umwelt und Nachhaltigkeit (Masterstudium: European Global Studies) Vertiefungsmodul: International Trade, Growth and the Environment (Masterstudium: Wirtschaftswissenschaften) Modul: Fields: Environment and Development (MSG - African Studies) Modul: Fields: Governance and Politics (MSG - African Studies)
Lernziele	see content
Inhalt	The course must be canceled this term due to the latest events and is postponed to Spring 2021. This course investigates the linkages between international trade and the environment from both a theoretical and empirical viewpoint. It investigates the theoretical links between international trade and sustainability in two ways by studying the link between trade and resource use on the one hand and trade and industrial pollution on the other. It then reviews the empirical evidence linking trade to environmental outcomes using the theory as a guide to evaluate and critique the literature.
Literatur	Some of the material covered are chapters in preparation for a new book “International Trade and Resource Use” and will be made available to students in pdf format. Most of it, however, is based on a selection of articles published in international journals.
Weblink	https://adam.unibas.ch
Leistungsüberprüfung	Semesterendprüfung
Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Anmelden: Belegen; Abmelden: Studiendekanat

Hinweise zur Leistungsüberprüfung	There will be one final exam and a paper requirement. The exam date will be established in the first lecture. The paper should be a critical analysis of a scholarly or popular article discussing some aspect of international trade's impact on the environment. The paper must use, at least implicitly, the tools and logic developed in the course. The date of the exam as well as the deadline of the paper will be posted and mentioned in the first class. Exam date: tba
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Required: A good understanding of the principles of economics and of microeconomics. Recommended International Trade Theory, Environmental and Resource Economics
Bemerkungen	You should have a look at some of the literature discussed in class in advance of the course to be prepared for the course. The material will be accessible on ADAM approximately three weeks in advance of the start of the course. Students will be able to access the reading material after registration. The course is part of the "Guestprofessorships in Globalization - Internationalization of the Economy"

10616-01 Vorlesung: Machine Learning 3 KP

Dozierende	**Dietmar Maringer**
Zeit und Ort	Do 14:15-18:00 - Online Präsenz - The course will be taught online at the dates you can see below:
Datum	04.03.2021
Intervall	wöchentlich
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Wirtschaftswissenschaftliche Fakultät / WWZ
Module	Modul: Kernbereich Wirtschaftswissenschaften (Masterstudium: Sustainable Development) Vertiefungsmodul: Marketing and Strategic Management (Masterstudium: Wirtschaftswissenschaften) Vertiefungsmodul: Quantitative Methods (Masterstudium: Wirtschaftswissenschaften)
Lernziele	Solid understanding of key machine learning techniques, their advantages and limitations, and application skills.
Inhalt	To counter-act the "data-rich, information-poor" ("drip") syndrome, this course covers concepts and techniques that aim at explorative analysis: finding structure within data, and, ideally, extracting information. Methods include (but are not limited to) non-linear regression, perceptrons and neural networks, support vector machines, and tree-based, kernel-based, or rule-based methods. Typical applications are classification, prediction, clustering, or dimension reduction. Theoretical presentations are complemented with hands-on examples using R and Python. Special emphasis will be given to validation and model selection. Time permitting, we will also discuss issues such as data preprocessing and data management.
Literatur	Lecture material will be provided. There is no designated textbook, but quite a few books participants might find helpful. These include (in alphabetical order): *) E. Alpaydin, Introduction to Machine Learning, 2nd ed., MIT Press 2010. *) B.S. Everitt and T. Hothorn. An Introduction to Applied Multivariate Analysis with R. Springer, 2011. *) B.S. Everitt, S. Landau, M. Leese, and D. Stahl. Cluster Analysis. Wiley, 2011. *) T. Hastie, R. Tibshirani, J. Friedman, The Elements of Statistical Learning: Data Mining, Inference, and Prediction, 2nd ed., Springer 2009. *) A.C. Rencher. Methods of Multivariate Analysis. Wiley, 3rd edition, 2012.

*) I.H. Witten, E. Frank, M.A. Hall, Data Mining: Practical Machine Learning Tools and Techniques, 3rd ed., Elsevier 2011.

Specific recommendations and additional literature to be announced during the course.

Weblink	https://adam.unibas.ch
Leistungsüberprüfung	Semesterendprüfung
Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Belegen via MOnA innerhalb der Belegfrist
Hinweise zur Leistungsüberprüfung	Combination of active participation, assignment(s) and final exam. written exam: 29.4.21; 14:15-15:00. Electronic exam.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	Online-Veranstaltung
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	*) completed BA in Business and Economics *) 12036 Econometrics *) Basic programming skills (R and/or Python)
Anmeldung zur Lehrveranstaltung	Registration: Please enrol in MOnA. EUCOR-Students and students of other Swiss Universities have to enrol at the students administration office (studseksupport1@unibas.ch) within the official enrolment period. Enrolment = Registration for the exam!

40105-01 Vorlesung: Macroeconomics and Finance — 6 KP

Dozierende	Lukas Hitz **Sarah Lein** Heinz Zimmermann
Zeit und Ort	Di 12:15-16:00 - Online Präsenz - The course will be taught online at 12.15-16.00 from April 20, 2021 onwards. Before that, the course will be taught via screencasts (see Syllabus document in ADAM for the Macroeconomics sequence).
Datum	02.03.2021
Intervall	wöchentlich
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Wirtschaftswissenschaftliche Fakultät / WWZ
Module	Grundlagenmodul: Advanced Topics in Economics (Masterstudium: International and Monetary Economics) Kernmodul: VWL (Masterstudium: Wirtschaftswissenschaften) (Pflicht) Modul: Ausgewählte Themen aus Ökonomie und Rechtswissenschaft (Masterstudium: Actuarial Science) Modul: Finanztheorie (Masterstudium: Actuarial Science) Modul: Kernbereich Wirtschaftswissenschaften (Masterstudium: Sustainable Development) Modul: Methoden der Wirtschaftswissenschaften (Masterstudium: European Global Studies)
Lernziele	Course objective: Introduction to key long-run and short-run issues in macroeconomics Treatment of key principles of financial economics, in particular related to time and uncertainty, and some corporate finance
Inhalt	The course part “Macroeconomics” is held in the first half of the semester until April 13 (via screencasts, see Syllabus on ADAM for details), the course part “Finance” follows from April 20 until the end of the semester. Course outline Part Macroeconomics: The largest part of the course Macroeconomics focuses on modern theories of macroeconomic fluctuations. Modern macroeconomics is built explicitly on microeconomic foundations. That is, the modern study and analysis of macroeconomics begins by considering how the microeconomic units, namely consumers and firms, in an economy make their decisions and then considers how the choices of these great many individuals interact with each other to yield economy-wide outcomes. We will also introduce financial markets in our model and discuss intertemporal choices. In the last part of this course, we will focus the long-run by analyzing models of economic growth.

Universität Basel

Course outline Part Finance
The lecture provides an overview on some of the key topics of the theory of finance
1) Capital market under certainty: Consumption, investment, economic growth, and interest rates; Fisher separation and economic implications
2) Capital market under uncertainty: Consumption-based pricing, risk aversion, state (SDF) valuation, CAPM, arbitrage pricing with applications to options
3) Corporate financial decisions: Capital structure and cost of capital, Modigliani-Miller, contingent-claim analysis of corporate securities, over- and underinvestment, real options, pecking order theory, payout decisions

Literatur	Reading Part Finance (recommended, not required): Cochrane, J., Asset pricing, Princeton Univ Press, 2005 Lengwiler, Y., Microfoundations of financial economics, Princeton Univ Press, 2006 Niepelt, D., Macroeconomic models, book draft, available online (chapters 3 and 4) de Matos, J.A., Theoretical foundations of corporate finance, Princeton Univ Press, 2001 Sharpe, W., Investors and markets, Princeton Univ Press, 2008 Readings Part Macroeconomics: Williamson, Stephen "Macroeconomics", 6th global edition. (MAIN textbook) Additional references: David Romer, Advanced Macroeconomics, 4th ed. 2012. Olivier Blanchard, Alessia Amighini/Francesco Giavazzi, Macroeconomics – A European Perspective, 2nd.ed. 2014, Chapter 11.
Weblink	https://adam.unibas.ch/
Leistungsüberprüfung	Semesterendprüfung
Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Belegen via MOnA innerhalb der Belegfrist
Hinweise zur Leistungsüberprüfung	written exam: 21.06.21; 15:00-16:30.The exam will take place at Basel Exhibition Center (Messe Basel). In case COVID-19 protective measures prevent examination on site, the faculty reserves the right to conduct the examination electronically during the same time slot. You will receive details of the on-site examinations (Exhibition Center or WWZ) by email approximately one week before the examination date.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	Online-Veranstaltung
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Completed Bachelor in Business and Economics
Anmeldung zur Lehrveranstaltung	Registration: Please enrol in MOnA. EUCOR-Students and students of other Swiss Universities have to enrol at the students administration office (studseksupport1@unibas.ch) within the official enrolment period. Enrolment = Registration for the exam!
Bemerkungen	Finance part: For each of the three subjects of the lecture, a package of slides is available. They are used in the lectures.

16036-01 Vorlesung: Microeconometrics: Nonlinear Models and Statistical Learning — 3 KP

Dozierende	**Christian Kleiber**
Zeit und Ort	Mi 10:15-12:00 - Online Präsenz - The course will be taught digitally with some Q&A-Sessions in the timeslots you can see below:
Datum	03.03.2021
Intervall	wöchentlich
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Wirtschaftswissenschaftliche Fakultät / WWZ
Module	Modul: Kernbereich Wirtschaftswissenschaften (Masterstudium: Sustainable Development) Modul: Schadenversicherung (Masterstudium: Actuarial Science) Modul: Statistik und Computational Science (Masterstudium: Actuarial Science) Spezialisierungsmodul: Areas of Specialization in International and/or Monetary Economics (Masterstudium: International and Monetary Economics) Vertiefungsmodul: Marketing and Strategic Management (Masterstudium:

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	Wirtschaftswissenschaften) Vertiefungsmodul: Quantitative Methods (Masterstudium: Wirtschaftswissenschaften)
Inhalt	Introductory econometrics courses mainly cover the linear regression model, which is suitable for modelling response variables that may be considered as continuous. However, there are many practical situations where data are naturally discrete, e.g. binary or count data. The course will cover the classical nonlinear regression models for such data. It will use the framework of generalized linear models (GLMs), which provides a unified approach to models such as logit, probit and Poisson regression. Inference will be likelihood based. In addition, there will be an introduction to the recent literature on statistical learning (aka machine learning), specifically to the notion of regularisation, with LASSO as the main example. If time permits there will also be a chapter on finite mixture models. Empirical illustrations may include data from labor economics, health economics, or marketing, among further sources. The course will make use of the R language for statistical computing and graphics, hence basic knowledge of this software (including data import, running regressions) is expected. All course materials are on OLAT. Remarks: (1) In order to make room for further (regression) models, there will at most be a brief review of likelihood methods. Participants are expected to be familiar with these methods at the level of the compulsory MSc level Econometrics course. (2) The course was formerly offered under the title Microeconometrics I. Many topics from that course will still be covered, however, there will be new topics from statistical learning. In order to make room for these, multinomial response models will no longer be covered. These are now included in a restructured course offered by K. Schmidheiny that was formerly called Microeconometrics II.
Literatur	Main references: Cameron AC, Trivedi PK (2005). Microeconometrics, Cambridge Univ. Press. Fahrmeir, L, Kneib T, Lang S, Marx B (2013). Regression -- Models, Methods and Applications, Springer. [available in electronic form via the university library!] James G, Witten D, Hastie T, Tibshirani R (2013). An Introduction to Statistical Learning. New York: Springer. [available in electronic form via the university library!] Winkelmann R, Boes S (2009). Analysis of Microdata, 2nd ed, Springer. Further (topic-specific) references will be indicated in the relevant contexts.
Weblink	https://wwz.unibas.ch/de/oekonometrieundstatistik/lehre/
Leistungsüberprüfung	Semesterendprüfung
Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Belegen via MOnA innerhalb der Belegfrist
Hinweise zur Leistungsüberprüfung	Notes for the Assessment: Written exam; 18.06.21; 10:15-11:45. The exam will take place at WWZ. In case COVID-19 protective measures prevent examination on site, the faculty reserves the right to conduct the examination electronically during the same time slot. You will receive details of the on-site examinations (Exhibition Center or WWZ) by email approximately one week before the examination date. In addition, there will be at least two assignments, for which students may work in groups of two. Overall, the assignments will account for 20% of the final grade.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	Online-Angebot obligatorisch
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Prerequisites: Completed bachelor's degree (for students majoring in Business and Economics). Introduction to Econometrics [BA] (for students from other departments: regression basics). Econometrics [MSc] (for students from other departments: a second course in statistics, notably likelihood methods).

Anmeldung zur Lehrveranstaltung	Registration: Please enrol in MOnA. EUCOR-Students and students of other Swiss Universities have to enrol at the students administration office (studseksupport1@unibas.ch) within the official enrolment period. Enrolment = Registration for the exam!

Modul: Vorbereitung Masterarbeit Gesellschaftswissenschaften

57245-01 Kolloquium: Sustainability Science Research (social dimension) 1 KP

Dozierende	**Paul Burger** Rony Emmenegger
Zeit und Ort	Do 16:15-18:30 - Online Präsenz -
Datum	04.03.2021
Intervall	wöchentlich
Angebotsmuster	Jedes Semester
Anbietende Organisationseinheit	Fachbereich Nachhaltigkeitsforschung
Module	Modul: Vorbereitung Masterarbeit Gesellschaftswissenschaften (Masterstudium: Sustainable Development)
Lernziele	Participants have in-depth knowledge about thematic and methodological aspects of social science research on sustainability.
Inhalt	Based on the presentation of ongoing research projects (Master's theses, PhD theses etc.), students analyze and discuss thematic and methodological questions related to current disciplinary and interdisciplinary research on sustainability. The detailed program is set in the first session.
Leistungsüberprüfung	Lehrveranst.-begleitend
Skala	Pass / Fail
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	An-/Abmelden: Belegen resp. Stornieren der Belegung via MOnA
Hinweise zur Leistungsüberprüfung	Oral presentations.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	Online-Angebot obligatorisch
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Only for MSD students with focus area in social science.
Anmeldung zur Lehrveranstaltung	Please enrol as soon as possible.
Bemerkungen	Mandatory for all MSD students who have chosen the focus area in social sciences (credits are earned once for the module "Preparation Master's Thesis in Social Sciences" = no repeated course registration possible). Enrollment and presentation according to agreement with Prof. Dr. Burger. This colloquium is offered by MSD. Prof. Dr. P. Burger is head of the Sustainability Research Group, Dep. Social Sciences, Faculty of Humanities and Social Sciences. Dr. Rony Emmenegger is a post doc staff member of the same research group.

49078-01 Kurs: Research Design Master's Thesis 3 KP

Dozierende	**Paul Burger** Patricia Holm Frank Christian Krysiak
Zeit und Ort	Mo 08:15-10:00 - Online Präsenz - Plenary meetings for all: 08.15 to 10h on 08.03.21; 22.03.21 & 03.05.21. Working group meetings on agreement.
Datum	08.03.2021
Intervall	unregelmässig
Angebotsmuster	Jedes Semester
Anbietende Organisationseinheit	Departement Umweltwissenschaften
Module	Modul: Vorbereitung Masterarbeit Gesellschaftswissenschaften (Masterstudium: Sustainable Development) Modul: Vorbereitung Masterarbeit Wirtschaftswissenschaften (Masterstudium: Sustainable Development)
Lernziele	The students - know how to prepare a research proposal for their master's thesis in a structured, systematic and scientific manner; - know to identify a valuable research topic in the field of sustainable development, to develop a related research question directed to a contribution to the scientific debate as well as designing a research approach (e.g. choice of methods) directed to answering the research question;

- are able to characterize intersections between their approach and other disciplines as well as intersections to non-academic fields (such as politics, business etc.);
- are familiar with formal requirements to a master's thesis (correct citation, presentation of graphs, figures, results, plagiarism etc.).

Inhalt	Writing a master's thesis on a sustainability relevant topic is the masterpiece of the MSD study program. Students are expected to use productively their acquired knowledge (in terms of methods and sustainability related content) for analyzing a specific topic. However, developing a research design that copes with scientific scrutiny and accuracy is by far not an easy endeavour. Questions like 'How can I find an interesting topic?' or 'According to which criteria should I decide to go for a specific method?' or - and most important – 'Why and how do I have to link my research design to the ongoing scientific discourse?' are waiting to be answered. This course is thought to support the students in developing in a structured, systematic and scientific manner their research proposal. Students get familiar with necessary elements of a master thesis (problem framing, introduction, background, aims, hypothesis, research questions, methods, results, discussion, reflection/contribution to the scientific debate etc. Students also learn how they can identify a valuable research topic in the field of sustainable development. Some elements are thereby generic, i.e. independent of a specific disciplinary perspective. Other elements are, to the contrary, highly dependent on the chosen disciplinary field. Still other elements are concerned with capturing intersections between the field. Against this backdrop, the class will be jointly given by the three teachers at the beginning, when it comes to unfold the generic components. Subsequently the group will split into three groups and the students will develop their research proposal along the specific requirements according their own focus areas.
Leistungsüberprüfung	Lehrveranst.-begleitend
Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	An-/Abmelden: Belegen resp. Stornieren der Belegung via MOnA
Hinweise zur Leistungsüberprüfung	Outline of master's thesis' research design.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	Online-Veranstaltung
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Exclusively for MSD students.
Anmeldung zur Lehrveranstaltung	Please register on MOnA as soon as possible (no additional course application). Only for MSD students. Students of IJDSD according to agreement with P. Burger.
Bemerkungen	Mandatory course for all students of MSD 2017 ("Preparation Master's Thesis" module). Students with focus area in natural science have to list this course in the learning agreement for the "Preparation Master's Thesis" module. For details see guidelines and medium-term syllabus. Students of IJDSD may attend the course according to agreement with P. Burger. Plenary meetings for all participants/ 08.15 to 10h: - meeting 1: 08.03.21; - meeting 2: 22.03.21; - meeting 3: 03.05.21. Meetings in between according to announcement with responsible professors. This course is offered by MSD: Prof. Dr. Patricia Holm, Paul Burger (lead) and Frank Krysiak are heading the MSD teaching committee.

50267-01 Seminar: Current Topics in Social Science Based on Sustainability Research 3 KP

Dozierende	**Annika Sohre**
Zeit und Ort	Di 10:15-11:45 - Online Präsenz -
Datum	02.03.2021
Intervall	wöchentlich
Angebotsmuster	unregelmässig
Anbietende Organisationseinheit	Fachbereich Nachhaltigkeitsforschung

Module	Modul: Vorbereitung Masterarbeit Gesellschaftswissenschaften (Masterstudium: Sustainable Development)
Lernziele	By the end of the semester the participants will have acquired competencies and skills necessary to disclose current topics of social science based sustainability research. Specifically, they will know how to set up systematic search strategies to find and delimitate relevant and current topics; how to elaborate the state of discussion in a given field; and how to specify knowledge gaps. Furthermore, they will learn how to summarize debates about current sustainability issues.
Inhalt	Sustainability research in the social sciences is a rapidly developing field that covers a broad range of debates within and across various disciplines and problem areas. This poses a huge challenge to keep track of “what is going on?”, to filter interesting topics and cope with the complexity of different contributions. Furthermore, there is a growing demand for social scientists to improve science communication, that is, condensing scientific results to comprehensible information, e.g. in the state-of-the-art section of a master thesis. In a lab setting, the students will systematically identify and engage with a current topic of social science-based sustainability research based on the method of systematic literature reviews. The students: - search and select current topics, and they further elaborate these topics in literature reviews; - discuss empirical, theoretical, methodological and practical issues concerning current topics; - present and discuss the developed topics orally and in written form.
Literatur	Tba during the seminar.
Leistungsüberprüfung	Lehrveranst.-begleitend
Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	An-/Abmelden: Belegen resp. Stornieren der Belegung via MOnA
Hinweise zur Leistungsüberprüfung	Regular attendance, required readings, oral presentation, essay.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Special course application required for ALL (for details see 'course application' or 'Anmeldung'). Limited number of participants (20); students of the MSD and IJDSD have priority. If you study something different you must do a master's degree within the 'Faculty of Humanities and Social Sciences'/Department of Social Sciences and may attend the seminar in case of vacancies. MSD 2017 Students who have chosen the focus area in natural sciences or in economics must have completed the 'Complementary Knowledge in Social Sciences' module (at least 8 CP).
Anmeldung zur Lehrveranstaltung	Mandatory application for ALL: Link for application open from 18.01.21/noon - 07.02.21/ midnight: https://adam.unibas.ch/goto_adam_fold_744950.html (Login on top row right hand side of ADAM website. The link is open as soon as the application form is online). In case of vacancies the mandatory online application link remains open until the end of the second week of teaching.
Bemerkungen	Please note entry requirements and mandatory course application procedure (additional to registration on MOnA). MSD 2017 For students with focus area in social sciences (MSD 2017) the seminar is mandatory for the published module. Transfer of credit points to the FASR module (learning agreement) is only possible for those, who have chosen the focus area in natural sciences or in economics. This seminar is offered by MSD. Dr. A. Sohre is post doc staff member of the Sustainability Research Group, Dep. of Social Sciences, Faculty of Humanities and Social Sciences.

46737-01 Seminar: Experimental Research Methods in Social Science 3 KP

Dozierende	**Iljana Schubert**
Zeit und Ort	Do 10:15-13:45 - Online Präsenz -

Universität Basel

Datum	11.03.2021
Intervall	unregelmässig
Angebotsmuster	unregelmässig
Anbietende Organisationseinheit	Fachbereich Nachhaltigkeitsforschung
Module	Modul: Methoden der Gesellschaftswissenschaften (Masterstudium: European Global Studies) Modul: Vorbereitung Masterarbeit Gesellschaftswissenschaften (Masterstudium: Sustainable Development) Modul: Erweiterung Gesellschaftswissenschaften M.A. (MSF - Politikwissenschaft) Modul: Methoden der Soziologie und der Gesellschaftswissenschaften: quantitativ (MSF - Soziologie)
Lernziele	To understand what experimental research methods are and how to design experiments in social sciences. Gain some experience designing experiments, collecting some data and understanding basic analysis.
Inhalt	This seminar will teach different experimental research techniques, such as lab experiments, field experiments and survey experiments, in the social sciences. It will include practical aspects which will focus on design, data collection and basic data analysis. Each seminar session will be divided into individual presentations and group work to develop, collect data on and analyse a small scale experiment within groups of 2-4 people.
Literatur	tba in class
Leistungsüberprüfung	Lehrveranst.-begleitend
Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	An-/Abmelden: Belegen resp. Stornieren der Belegung via MOnA
Hinweise zur Leistungsüberprüfung	Regular attendance, required reading. Individual presentation and small group experimental research project report.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	Online-Veranstaltung
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Prior experience with statistical software (e.g. SPSS) as well as prior knowledge of univariate statistics and basic knowledge of ANOVA or OLS regression is expected. Special course inscription required for ALL (for details see 'course application' or 'Anmeldung'). Course inscriptions in a different way then explained ARE NOT taken into account. Limited number of participants (15), Students of the MSD, IJDSD and those of the mentioned fields of study (see list of modules) have priority. MSD students who have chosen the focus area in natural sciences or in economics must have completed the 'Complementary Knowledge in Social Sciences' module (at least 8 CP). If you study something different, you must do a master degree within the 'Faculty of Humanities and Social Sciences'/Departement of Social Sciences and may attend the seminar in case of vacancies and former inscription as explained.
Anmeldung zur Lehrveranstaltung	Mandatory application for ALL: Link for application open from 18.01.21/noon - 07.02.21/ midnight: https://adam.unibas.ch/goto_adam_fold_744950.html (Login on top row right hand side of ADAM website. The link is open as soon as the application form is online). In case of vacancies the mandatory online application link remains open until the end of the second week of teaching.
Bemerkungen	Please note entry requirements and mandatory course application procedure (additional to registration on MOnA). MSD 2017 Students who have chosen the focus area in natural sciences or in economics transfer the CP to the FASR module (learning agreement). For the students with focus area in social science it's mandatory to attend one class in methods, see information in the medium-term syllabus. If they attend this seminar on a voluntary base, they can accredit the CP either for the published module or transfer them to the FASR module (learning agreement).

This seminar is offered by MSD. Dr. Iljana Schubert is a post doc staff member of the Sustainability Research Group, Dep. Social Sciences, Faculty of Humanities and Social Sciences.

33426-01 Seminar: Quantitative Data Analysis in African Studies 3 KP

Dozierende	**Elisio Macamo**
Zeit und Ort	Mi 10:15-12:00 - Online Präsenz -
Datum	03.03.2021
Intervall	wöchentlich
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Zentrum für Afrikastudien
Module	Modul: Methoden der Gesellschaftswissenschaften (Masterstudium: European Global Studies) Modul: Vorbereitung Masterarbeit Gesellschaftswissenschaften (Masterstudium: Sustainable Development) Modul: Creating, Analyzing and Visualizing of Data (MSF - Digital Humanities) Modul: Methoden der Near & Middle Eastern Studies und der Gesellschaftswissenschaften (MSF - Near & Middle Eastern Studies) Modul: Erweiterung Gesellschaftswissenschaften M.A. (MSF - Politikwissenschaft) Modul: Methoden der Soziologie und der Gesellschaftswissenschaften: quantitativ (MSF - Soziologie) Modul: Research Skills (MSG - African Studies) Modul: Transfer: Europa interdisziplinär (MSG - Europäische Geschichte in globaler Perspektive)
Lernziele	Students know - that “analysis” is above all an exercise in argumentation; - how to identify the logical structure of explanations in quantitative analysis; - how basic argument forms such as comparison and representativeness can be deployed in analysis; - how to avoid the pitfalls of faulty reasoning such as in “cause and effect”, “ignoring evidence” and “anticipation”; - how to deploy quantitative analytic tools in the context of Africa.
Inhalt	The aim of this course is to improve participants’ ability to read and critically engage with quantitative research reports. It assumes no advanced knowledge of mathematics and does not expect participants to be familiar with advanced statistical methods. The course will introduce participants to the logic of quantitative analysis by exploring fundamental aspects of the logic underlying it and in this way improving participants’ own analytical and critical skills. In preparation for the course, participants are required to not only read the recommended literature, but also identify a quantitative research report (article, book chapter, etc.), which they are expected to critically evaluate as part of their own evaluation for the course.
Literatur	Neuman, Lawrence, W. 2007: Basics of Social Research – Qualitative and Quantitative Approaches. Pearson Education. Boston (chapter 10). Kalof, Linda, Dan, Amy and Dietz, Thomas 2008: Essentials of Social Research. Open University Press. Maidenhead (chapter 3). Best, Joel 2001: Damned Lies and Statistics – Untangling numbers from the media, politicians, and activists. University of California Press. Berkeley. Browne, M. Neil and Keeley, Stuart M. 2007: Asking the Right Questions – A guide to critical thinking. Pearson Prentice Hall. New Jersey. Murphy, Robert P. Economists Should Be More Careful With Their Statistics. Here: https://www.econlib.org/library/Columns/y2018/Murphystatistics.html
Leistungsüberprüfung	Lehrveranst.-begleitend
Skala	Pass / Fail
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Anmelden: Belegen; Abmelden: nicht erforderlich
Hinweise zur Leistungsüberprüfung	In preparation for the course, participants are required to not only read the recommended literature, but also identify a quantitative research report (article, book chapter, etc), which they are expected to critically evaluate as part of their own evaluation for the course. The block course consists of morning sessions only except from tuesday. Participants must allow for sufficient time for daily assignments..
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Deutsch

Universität Basel

Modul: Vorbereitung Masterarbeit Wirtschaftswissenschaften

49078-01 Kurs: Research Design Master's Thesis 3 KP

Dozierende	**Paul Burger** Patricia Holm Frank Christian Krysiak
Zeit und Ort	Mo 08:15-10:00 - Online Präsenz - Plenary meetings for all: 08.15 to 10h on 08.03.21; 22.03.21 & 03.05.21. Working group meetings on agreement.
Datum	08.03.2021
Intervall	unregelmässig
Angebotsmuster	Jedes Semester
Anbietende Organisationseinheit	Departement Umweltwissenschaften
Module	Modul: Vorbereitung Masterarbeit Gesellschaftswissenschaften (Masterstudium: Sustainable Development) Modul: Vorbereitung Masterarbeit Wirtschaftswissenschaften (Masterstudium: Sustainable Development)
Lernziele	The students - know how to prepare a research proposal for their master's thesis in a structured, systematic and scientific manner; - know to identify a valuable research topic in the field of sustainable development, to develop a related research question directed to a contribution to the scientific debate as well as designing a research approach (e.g. choice of methods) directed to answering the research question; - are able to characterize intersections between their approach and other disciplines as well as intersections to non-academic fields (such as politics, business etc.); - are familiar with formal requirements to a master's thesis (correct citation, presentation of graphs, figures, results, plagiarism etc.).
Inhalt	Writing a master's thesis on a sustainability relevant topic is the masterpiece of the MSD study program. Students are expected to use productively their acquired knowledge (in terms of methods and sustainability related content) for analyzing a specific topic. However, developing a research design that copes with scientific scrutiny and accuracy is by far not an easy endeavour. Questions like 'How can I find an interesting topic?' or 'According to which criteria should I decide to go for a specific method?' or - and most important – 'Why and how do I have to link my research design to the ongoing scientific discourse?' are waiting to be answered. This course is thought to support the students in developing in a structured, systematic and scientific manner their research proposal. Students get familiar with necessary elements of a master thesis (problem framing, introduction, background, aims, hypothesis, research questions, methods, results, discussion, reflection/contribution to the scientific debate etc. Students also learn how they can identify a valuable research topic in the field of sustainable development. Some elements are thereby generic, i.e. independent of a specific disciplinary perspective. Other elements are, to the contrary, highly dependent on the chosen disciplinary field. Still other elements are concerned with capturing intersections between the field. Against this backdrop, the class will be jointly given by the three teachers at the beginning, when it comes to unfold the generic components. Subsequently the group will split into three groups and the students will develop their research proposal along the specific requirements according their own focus areas.
Leistungsüberprüfung	Lehrveranst.-begleitend
Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	An-/Abmelden: Belegen resp. Stornieren der Belegung via MOnA
Hinweise zur Leistungsüberprüfung	Outline of master's thesis' research design.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	Online-Veranstaltung
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Exclusively for MSD students.
Anmeldung zur Lehrveranstaltung	Please register on MOnA as soon as possible (no additional course application). Only for MSD students. Students of IJDSD according to agreement with P. Burger.

Bemerkungen	Mandatory course for all students of MSD 2017 ("Preparation Master's Thesis" module). Students with focus area in natural science have to list this course in the learning agreement for the "Preparation Master's Thesis" module. For details see guidelines and medium-term syllabus. Students of IJDSD may attend the course according to agreement with P. Burger. Plenary meetings for all participants/ 08.15 to 10h: - meeting 1: 08.03.21; - meeting 2: 22.03.21; - meeting 3: 03.05.21. Meetings in between according to announcement with responsible professors. This course is offered by MSD: Prof. Dr. Patricia Holm, Paul Burger (lead) and Frank Krysiak are heading the MSD teaching committee.

40106-01 Vorlesung: Game Theory and Theory of the Firm 6 KP

Dozierende	Dragan Ilic **Catherine Roux**
Zeit und Ort	Mi 08:15-10:00 Vesalianum Seiteneingang, Grosser Hörsaal (EO.16) Fr 14:15-16:00 Vesalianum Seiteneingang, Grosser Hörsaal (EO.16) The "in class" sessions are broadcats with livestreams and recorded. After April 16, 2021 the course will be taught digitally without any fixed timeslots.
Datum	03.03.2021
Intervall	wöchentlich
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Wirtschaftswissenschaftliche Fakultät / WWZ
Module	Grundlagenmodul: Advanced Topics in Economics (Masterstudium: International and Monetary Economics) Kernmodul: BWL (Masterstudium: Wirtschaftswissenschaften) (Pflicht) Modul: Ausgewählte Themen aus Ökonomie und Rechtswissenschaft (Masterstudium: Actuarial Science) Modul: Kernbereich Wirtschaftswissenschaften (Masterstudium: Sustainable Development) Modul: Methoden der Wirtschaftswissenschaften (Masterstudium: European Global Studies) Modul: Vorbereitung Masterarbeit Wirtschaftswissenschaften (Masterstudium: Sustainable Development)
Lernziele	Game Theory: As Gibbons (1992, xi) puts it: "Game Theory is the study of multiperson decision problems. Such problems arise frequently in economics. As is widely appreciated, for example, oligopolies present multiperson problems – each firm must consider what the others will do. But many other applications of game theory arise in fields of economics other than industrial organization. At the micro level, models of trading processes (such as bargaining and auction models) involve game theory. At the intermediate level of aggregation, labor and financial economics include game-theoretic models of the behavior of a firm in its input markets (rather than its output market, as in an oligopoly). There are also multiperson problems within a firm: many workers may vie for one promotion; several divisions may compete for the corporation's investment capital. Finally, at a high level of aggregation, international economics includes models in which countries compete (or collude) in choosing tariffs and other trade policies, and macroeconomics includes models in which monetary authority and wage or price setters interact strategically to determine the effects of monetary policy." This course will introduce students to the main concepts and techniques of game-theoretic analysis. At its core lies the understanding of strategic interactions between deciding agents. The students will appreciate how to apply game-theoretic analysis to strategic settings. Theory of the Firm: Why do firms exist? Why are firms organized the way they are? Traditional economic models leave little room for firms or other organizations as they focus on market exchange between individuals. This course will introduce students to microeconomic models that try to explain the existence and structure of firms as we observe them in the real world. Economics brings a rigorous approach that is grounded in theory. The course will provide a basic understanding of economic approaches to modeling and understanding aspects of firms, their structure, the behavior they create, and how they differ from market interaction. About half of the course will be based on the standard textbook by Milgrom and Roberts, the other half will consist of influential articles on the economics of organizations, by authors

such as Coase, Williamson, Hart, and Tirole.

Inhalt

Game Theory (first half of the semester):
The course is divided into lecture hours and exercise hours. Problem sets will be available before every lecture hour and will be partly solved together in class.
Block 1: Static Games of Complete Information:
- Introduction, normal form, best response, dominant strategies, iterated elimination, Nash equilibrium
- Mixed strategies
- Proof of existence, multiple equilibria, refinements

Block 2: Dynamic Games of Complete Information:
- Extensive form, backwards induction
- Subgame perfection, repeated games
- Infinitely repeated games, bilateral bargaining

Block 3: Static Games of Incomplete Information:
- Bayesian games, Bayesian Nash Equilibrium
- First-price auction, double auction

Block 4: Dynamic Games of Complete and Incomplete Information:
- Purification of mixed strategies, Perfect Bayesian Equilibrium
- Signaling games

Theory of the Firm (second half of the semester):
Markets and Prices as Coordination and Incentive Devices
- Transaction Costs
- Team Production
- Asymmetric Information
- Principal-Agent Theory
- Signaling
- Efficiency Wages

Literatur

Literature part Game Theory:
The teaching program follows Robert Gibbon's book "Game Theory for Applied Economists", also known as "A Primer in Game Theory," (Princeton University Press, 1992). Slides for each lecture are uploaded to ADAM in advance.

Literature part Theory of the Firm:
The readings will consist of both scholarly research articles and chapters from the textbook, Economics, Organization and Management, by Paul Milgrom and John Roberts (1992, Prentice Hall). Both kinds of readings will be made available online.

Weblink https://adam.unibas.ch
Leistungsüberprüfung Semesterendprüfung
Skala 1-6 0,1
Wiederholungsprüfung keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung Belegen via MOnA innerhalb der Belegfrist
Hinweise zur Leistungsüberprüfung combined written exam: 10.06.21; 15:00-16:30. The exam will take place at Basel Exhibition Center (Messe Basel). In case COVID-19 protective measures prevent examination on site, the faculty reserves the right to conduct the examination electronically during the same time slot. You will receive details of the on-site examinations (Exhibition Center or WWZ) by email approximately one week before the examination date.

Belegen bei Nichtbestehen beliebig wiederholbar
Einsatz digitaler Medien Online-Angebot obligatorisch
Unterrichtssprache Englisch
Teilnahmevoraussetzungen Completed Bachelor in Business and Economics
Anmeldung zur Lehrveranstaltung Registration: Please enroll in MOnA. EUCOR-Students and students of other Swiss Universities have to enroll at the students administration office (studseksupport1@unibas.ch) within the official enrollment period. Enrollment = Registration for the exam!

Bemerkungen For all MIME students: This lecture can be a substitute in the Module 1: Advanced Topics in Econonomics for the course 31960 Microeconomics and Psychology of Decision Making which is taught in fall term.

17691-01 Vorlesung: International Trade, Resources and the Environment - ABGESAGT - 3 KP

Dozierende M. Scott Taylor

Universität Basel

Zeit und Ort	abgesagt
Datum	01.03.2021
Intervall	Block
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Wirtschaftswissenschaftliche Fakultät / WWZ
Module	Modul: Kernbereich Wirtschaftswissenschaften (Masterstudium: Sustainable Development) Modul: Vorbereitung Masterarbeit Wirtschaftswissenschaften (Masterstudium: Sustainable Development) Spezialisierungsmodul: Areas of Specialization in International and/or Monetary Economics (Masterstudium: International and Monetary Economics) Vertiefungsmodul Global Europe: Umwelt und Nachhaltigkeit (Masterstudium: European Global Studies) Vertiefungsmodul: International Trade, Growth and the Environment (Masterstudium: Wirtschaftswissenschaften) Modul: Fields: Environment and Development (MSG - African Studies) Modul: Fields: Governance and Politics (MSG - African Studies)
Lernziele	see content
Inhalt	The course must be canceled this term due to the latest events and is postponed to Spring 2021. This course investigates the linkages between international trade and the environment from both a theoretical and empirical viewpoint. It investigates the theoretical links between international trade and sustainability in two ways by studying the link between trade and resource use on the one hand and trade and industrial pollution on the other. It then reviews the empirical evidence linking trade to environmental outcomes using the theory as a guide to evaluate and critique the literature.
Literatur	Some of the material covered are chapters in preparation for a new book “International Trade and Resource Use” and will be made available to students in pdf format. Most of it, however, is based on a selection of articles published in international journals.
Weblink	https://adam.unibas.ch
Leistungsüberprüfung	Semesterendprüfung
Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Anmelden: Belegen; Abmelden: Studiendekanat
Hinweise zur Leistungsüberprüfung	There will be one final exam and a paper requirement. The exam date will be established in the first lecture. The paper should be a critical analysis of a scholarly or popular article discussing some aspect of international trade’s impact on the environment. The paper must use, at least implicitly, the tools and logic developed in the course. The date of the exam as well as the deadline of the paper will be posted and mentioned in the first class. Exam date: tba
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Required: A good understanding of the principles of economics and of microeconomics. Recommended International Trade Theory, Environmental and Resource Economics
Bemerkungen	You should have a look at some of the literature discussed in class in advance of the course to be prepared for the course. The material will be accessible on ADAM approximately three weeks in advance of the start of the course. Students will be able to access the reading material after registration. The course is part of the "Guestprofessorships in Globalization - Internationalization of the Economy"